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C	83	21.6	0.9	54	16	AAT23964	Human gene signatu
	84	21.6	0.9	60	24	ABN36856	Human spliced tran
	85	21.4	0.9	48	19	AAV69937	Chlorella virus pr
	86	21.4	0.9	48	24	MA221106	(CGA)16 DNA purifi
	87	21.4	0.9	48	24	AA224852	Chlorella virus cv
	88	21.4	0.9	51	22	AA131468	Human SNP oligonuc
	89	21.4	0.9	53	22	AA178865	Human silent SNP c
	90	21.4	0.9	53	22	AA193331	Plasmodium falcipa
	91	21.4	0.9	59	21	AA113150	Human secreted pro
	92	21.4	0.9	60	24	ABN32960	Human spliced tran
	93	21.4	0.9	60	24	ABN37046	Human spliced tran
	94	21.4	0.9	60	24	ABN37096	Human spliced tran
	95	21.4	0.9	60	24	ABN50863	Human spliced tran
	96	21.2	0.9	41	22	AAH44690	Human type-I amino
	97	21.2	0.9	48	22	AAH29312	Primer base sequen
	98	21.2	0.9	50	22	AA177361	Human silent SNP c
	99	21.2	0.9	51	21	AAH77364	Human clone c94491
	100	21.2	0.9	51	22	AA131990	Human SNP oligonuc

ALIGNMENTS

RESULT 1
ABN41230
ID ABN41230 standard; DNA; 60 BP.

AC ABN41230;

DT 15-JUL-2002 (first entry)

DE Human spliced transcript detection oligonucleotide SEQ ID NO:13978.

KM Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.

OS Homo sapiens.

PN MO200210449-A2.

PD 07-FEB-2002.

PF 20-JUL-2001; 2001MO-IB01903.

PR 28-JUL-2000; 2000US-221607P.

PR 02-MAY-2001; 2001US-287724P.

PA (COMP-) COMEUGEN INC.

PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

PI WPI; 2002-257383/30.

PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes

PS Example 1; SEQ ID 13978; 47bp; English.

XX The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX transcription units that populate a genome. The library comprises
XX several oligonucleotides, each capable of hybridizing selectively to a
XX set of messenger RNAs transcribed from a given transcription unit of
XX the genome, which encodes one or more messenger RNA splice variants.
XX The oligonucleotide libraries are useful for detecting mRNAs from a
XX biological sample, in expression profiling studies, in qualitatively or
XX quantitatively characterizing the corresponding transcriptome, and in
XX detecting RNA transcripts and splice variants of human or animal
XX transcriptomes. The libraries may also be used as specialised mini
XX libraries to detect transcripts of a sub-transcriptome under a

CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN93589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 60 BP; 20 A; 12 C; 18 G; 10 T; 0 other;

Query Match 2.6%; Score 60; DB 24; Length 60;
Best Local Similarity 100.0%; Pred. No. 9.4e-06;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1468 ATGAGCAGATGATGTGACAAATGAGTGGGAGAGCATCGGACCACTTCGATACGACAG 1527
DB 1 ATGAGCAGATGATGTGACAAATGAGTGGGAGAGCATCGGACCACTTCGATACGACAG 60

RESULT 2
AAL28838/c
ID AAL28838 standard; DNA; 51 BP.

AC AAL28838;

DT 24-JAN-2002 (first entry)

DE Human SNP oligonucleotide #2046.

KM Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KM neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
KM amyloid protein; angiotensin; apoptosis related protein; cadherin;
KM cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KM complement related protein; cyclochrome; kinesin; cytokine; interferon;
KM interleukin; G-protein coupled receptor; thioesterase; inflammation;
KM multifactorial disease; autoimmune disease; infection;
KM nervous system disease; ss.

OS Homo sapiens.

PN MO200147944-A2.

PD 05-JUL-2001.

PF 28-DEC-2000; 2000MO-US35498.

PR 28-DEC-1999; 99US-0173419.

PR 27-DEC-2000; 2000US-0173419.

PA (CUBA-) CUBAGEN CORP.

PI Shinkets RA, Leach M;

PI WPI; 2001-465210/50.

PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PT cancer, autoimmune diseases and infections

PS Claim 1; Page 1966; 4143bp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cyclochromes, kinesin, cytokines, interferons, interleukins,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of

CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

SO Sequence 51 BP; 12 A; 9 C; 9 G; 21 T; 0 other;

Query Match 2.2%; Score 51; DB 22; Length 51;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1707 TCAATGTCATTACATACACCTTCGACACAGAAAATTAACGTGATT 1757

DB 51 TCAATGTCATTACATACACCTTCGACACAGAAAATTAACGTGATT 1

RESULT 3

AAI28841/c
ID AAI28841 standard; DNA; 50 BP.

AAI28841;

24-JAN-2002 (first entry)

Human SNP oligonucleotide #2049.

Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
neuroprotective; antimicrobial; gene therapy; vaccine; amyloid; cancer;
amyloid protein; angiotensin; apoptosis related protein; cadherin;
cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
complement related protein; cytochrome; kinesin; cytokine; interferon;
interleukin; G-protein coupled receptor; thioesterase; inflammation;
multifactorial disease; autoimmune disease; infection;
nervous system disease; ss.

OS Homo sapiens

PN WO200147944-A2.

PD 05-JUL-2001

PF 28-DEC-2000; 2000MO-US35498.

PR 28-DEC-1999; 99US-0173419.

PT 27-DEC-2000; 2000US-0173419.

PI (CURA-) CURAGEN CORP.

PI Shimketa RA, Leach M;

DR WPI; 2001-465210/50.

PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.

PT cancer, autoimmune diseases and infections -

PS Claim 1; Page 1967; 4143pp; English.

CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
CC G-protein coupled receptors and thioesterases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

SO Sequence 50 BP; 13 A; 17 C; 3 G; 17 T; 0 other;

Query Match 2.1%; Score 50; DB 22; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.0033;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1610 GCAATGCTTTTAAATGAATTTAAGCAAAAAGTGAGAGGAGATGTGTG 1659

DB 50 GCAATGCTTTTAAATGAATTTAAGCAAAAAGTGAGAGGAGATGTGTG 1

RESULT 4

AAI28839/c
ID AAI28839 standard; DNA; 51 BP.

AAI28839;

24-JAN-2002 (first entry)

Human SNP oligonucleotide #2047.

Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
neuroprotective; antimicrobial; gene therapy; vaccine; amyloid; cancer;
amyloid protein; angiotensin; apoptosis related protein; cadherin;
cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
complement related protein; cytochrome; kinesin; cytokine; interferon;
interleukin; G-protein coupled receptor; thioesterase; inflammation;
multifactorial disease; autoimmune disease; infection;
nervous system disease; ss.

OS Homo sapiens

PN WO200147944-A2.

PD 05-JUL-2001

PF 28-DEC-2000; 2000MO-US35498.

PR 28-DEC-1999; 99US-0173419.

PT 27-DEC-2000; 2000US-0173419.

PI (CURA-) CURAGEN CORP.

PI Shimketa RA, Leach M;

DR WPI; 2001-465210/50.

PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.

PT cancer, autoimmune diseases and infections -

PS Claim 1; Page 1966; 4143pp; English.

CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
CC G-protein coupled receptors and thioesterases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,

CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

SQ Sequence 51 BP, 10 A; 14 C; 9 G; 18 T; 0 other;

Query Match 1.7%; Score 40; DB 22; Length 51;

Best Local Similarity 98.1%; Pred. No. 1.3;

Matches 51; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1655 GTGTGAGCATCTCTGCAAGGTGAACAAGCTCAAAAATGACAGTTTCAGAGAG 1706

DB 51 GTGTGAGCATCTCTGCAAGGTGAACAAGCTCAAAAATGACAGTTTCAGAGAG 1

RESULT 5

AAI28840/c

ID AAI28840 standard; DNA; 51 BP.

AC AAI28840;

DT 24-JAN-2002 (first entry)

XX Human SNP oligonucleotide #2048.

XX Immunosuppressive; immunostimulatory; antiinflammatory; cyostatic;
XX neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
XX amyloid protein; angiotensin; apoptosis related protein; cadherin;
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
XX complement related protein; cytochrome; kinesin; cytokine; interferon;
XX interleukin; G-protein coupled receptor; thioesterase; inflammation;
XX multifactorial disease; autoimmune disease; infection;
XX nervous system disease; ss.

OS Homo sapiens.

PN WO200147944-A2.

PD 05-JUL-2001

PF 28-DEC-2000; 2000MO-US35498.

PR 28-DEC-1999; 99US-0173419.

PR 27-DEC-2000; 2000US-0173419.

PA (CURA-) CURAGEN CORP.

PI Shimkets RA, Leach M;

DR WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
XX oncogenes and histones, useful for diagnosing and treating, e.g.
XX cancer, autoimmune diseases and infections -

PS Claim 1; Page 1967; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinesins, cytokines, interferons, interleukin,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of
XX diseases associated with inappropriate expression of the proteins listed
XX above. Disorders that may be prevented, diagnosed and/or treated include
XX multifactorial diseases with a genetic component, such as autoimmune
XX diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
XX systemic lupus erythematosus and Grave's disease), inflammation, cancer
XX (e.g. cancers of the bladder, brain, breast, colon and kidney,
XX leukemia), diseases of the nervous system and an infection of pathogenic
XX organisms.

SQ Sequence 51 BP, 10 A; 14 C; 9 G; 18 T; 0 other;

Query Match 1.7%; Score 40; DB 22; Length 51;

Best Local Similarity 98.1%; Pred. No. 1.3;

Matches 51; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1655 GTGTGAGCATCTCTGCAAGGTGAACAAGCTCAAAAATGACAGTTTCAGAGAG 1706

DB 51 GTGTGAGCATCTCTGCAAGGTGAACAAGCTCAAAAATGACAGTTTCAGAGAG 1

RESULT 6

AAI29715/c

ID AAI29715 standard; DNA; 51 BP.

AC AAI29715;

DT 24-JAN-2002 (first entry)

XX Human SNP oligonucleotide #2923.

XX Immunosuppressive; immunostimulatory; antiinflammatory; cyostatic;
XX neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
XX amyloid protein; angiotensin; apoptosis related protein; cadherin;
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
XX complement related protein; cytochrome; kinesin; cytokine; interferon;
XX interleukin; G-protein coupled receptor; thioesterase; inflammation;
XX multifactorial disease; autoimmune disease; infection;
XX nervous system disease; ss.

OS Homo sapiens.

PN WO200147944-A2.

PD 05-JUL-2001

PF 28-DEC-2000; 2000MO-US35498.

PR 28-DEC-1999; 99US-0173419.

PR 27-DEC-2000; 2000US-0173419.

PA (CURA-) CURAGEN CORP.

PI Shimkets RA, Leach M;

DR WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
XX oncogenes and histones, useful for diagnosing and treating, e.g.
XX cancer, autoimmune diseases and infections -

PS Claim 1; Page 2223; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinesins, cytokines, interferons, interleukin,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of
XX diseases associated with inappropriate expression of the proteins listed
XX above. Disorders that may be prevented, diagnosed and/or treated include
XX multifactorial diseases with a genetic component, such as autoimmune
XX diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
XX systemic lupus erythematosus and Grave's disease), inflammation, cancer
XX (e.g. cancers of the bladder, brain, breast, colon and kidney,
XX leukemia), diseases of the nervous system and an infection of pathogenic
XX organisms.

SQ Sequence 51 BP, 8 A; 7 C; 3 G; 33 T; 0 other;

Query Match 1.1%; Score 26.2; DB 22; Length 51;

Matches 33; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
157 TTTTAAATCATCATGTCAGCAAAAAAATAAAGCAAAATA 1802
51 TTTCAAAAATTAAGCAGTGAAGCATTAATAAAAAAAAAAAAA 6

RESULT 9
AAS19268 standard; DNA; 25 BP.

AAS19268;

26-MAR-2002 (first entry)

Human protein kinases SGK351 PCR primer #1.

Human; ss; SGK351; protein kinase; cancers; immune-related disease;
cardiovascular disease; neuronal-associated disease; metabolic disorder;
tissue cancer; haematopoietic cancer; central nervous system disorder;
peripheral nervous system disorder; Alzheimer's disease;
Parkinson's disease; multiple sclerosis; amyotrophic lateral sclerosis;
viral infection; prion infection; bacterial infection; fungal infection;
ocular disease; migraine; pain; sexual dysfunction; mood disorder;
attention disorder; cognition disorder; hypertension; hypertension;
psychotic disorder; neurological disorder; dyskinesia; gene therapy;
metabolic disorder; organ transplant rejection; PCR primer.

Homo sapiens.

WO200177338-A2

18-OCT-2001.

10-APR-2001; 2001WO-US11675.

10-APR-2000; 2000US-195953P.

01-MAY-2000; 2000US-201015P.

22-JUN-2000; 2000US-213805P.

(SUGEN-) SUGEN INC.

Plowman G, Whyte D, Manning G, Sudarsanam S, Martinez R;
Caenepeel S;

WPI; 2001-657173/75.

Novel kinase polypeptides useful for identifying modulators of kinase
polypeptide that are used for inhibiting kinase activity for treating
cancers, Alzheimer's disease, Parkinson's disease, multiple sclerosis

Example 2b; Page 104; 167pp; English.

The invention relates to an isolated, enriched, or purified kinase
polypeptide comprising a 1360 or 198 residue amino acid sequence, fully
defined in specification, or comprising a kinase except which
lacks one or more of N- or C-terminal domain, C-terminal catalytic
domain, a catalytic domain, a coiled-coil structure region, a
proline-rich region, a spacer region, or a C-terminal tail. Also
include are the encoding polynucleotides. The novel kinase is useful for
identifying a substance that modulates the activity of a kinase
The polynucleotide is useful for detecting nucleic acid encoding a kinase
polypeptide in a sample. The kinases, polynucleotides modulators
of the kinases and anti-kinase antibodies are useful for diagnosing and
treating a disease or disorder such as cancers, immune-related disease
and disorders, cardiovascular disease, brain or neuronal-associated
diseases, and metabolic disorders, e.g. cancers of tissues, cancers of
haematopoietic origin, diseases of the central or peripheral nervous
system, Alzheimer's disease, Parkinson's disease, multiple sclerosis,
amyotrophic lateral sclerosis, viral infections, infections caused by
prions, infections caused by bacteria, infections caused by fungi, or
ocular diseases, migraine, pain, sexual dysfunction, mood disorders,

attention disorders, cognition disorders, hypotension, hypertension,
psychotic disorders, neurological disorders, dyskinesias, metabolic
diseases, or organ transplant rejection and many other diseases
and disorders given in the specification. The polynucleotide is
useful in gene therapy techniques. The two novel kinases are
designated SGK341 (the gene is located on chromosome Xp22.1) and SGK351
(chromosome 17q22-25). The present sequence is a PCR primer used to
investigate the tissue specific expression of SGK351.

Sequence 25 BP; 10 A; 2 C; 6 G; 7 T; 0 other;
Query Match 1.1%; Score 25; DB 23; Length 25;
Best Local Similarity 100.0%; Pred.No. 6.8e+03;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

560 GAGACTATTATGACAGTAAAG 584
1 GAGACTATTATGACAGTAAAG 25

RESULT 10
AAS19269/c

AAS19269 standard; DNA; 25 BP.

AAS19269;

26-MAR-2002 (first entry)

Human protein kinases SGK351 PCR primer #2.

Human; ss; SGK351; protein kinase; cancers; immune-related disease;
cardiovascular disease; neuronal-associated disease; metabolic disorder;
tissue cancer; haematopoietic cancer; central nervous system disorder;
peripheral nervous system disorder; Alzheimer's disease;
Parkinson's disease; multiple sclerosis; amyotrophic lateral sclerosis;
viral infection; prion infection; bacterial infection; fungal infection;
ocular disease; migraine; pain; sexual dysfunction; mood disorder;
attention disorder; cognition disorder; hypertension; hypertension;
psychotic disorder; neurological disorder; dyskinesia; gene therapy;
metabolic disorder; organ transplant rejection; PCR primer.

Homo sapiens.

WO200177338-A2

18-OCT-2001.

10-APR-2001; 2001WO-US11675.

10-APR-2000; 2000US-195953P.

01-MAY-2000; 2000US-201015P.

22-JUN-2000; 2000US-213805P.

(SUGEN-) SUGEN INC.

Plowman G, Whyte D, Manning G, Sudarsanam S, Martinez R;
Caenepeel S;

WPI; 2001-657173/75.

Novel kinase polypeptides useful for identifying modulators of kinase
polypeptide that are used for inhibiting kinase activity for treating
cancers, Alzheimer's disease, Parkinson's disease, multiple sclerosis

Example 2b; Page 104; 167pp; English.

The invention relates to an isolated, enriched, or purified kinase
polypeptide comprising a 1360 or 198 residue amino acid sequence, fully
defined in specification, or comprising a kinase except which
lacks one or more of N- or C-terminal domain, C-terminal catalytic
domain, a catalytic domain, a coiled-coil structure region, a
proline-rich region, a spacer region, or a C-terminal tail. Also

CC include are the encoding polynucleotides. The novel kinase is useful for
CC identifying a substance that modulates the activity of a kinase
CC The polynucleotide is useful for detecting nucleic acid encoding a kinase
CC polypeptide in a sample. The kinases, polynucleotides modulators
CC of the kinases and anti-kinase antibodies are useful for diagnosing and
CC treating a disease or disorder such as cancer, immune-related disease
CC and disorders, cardiovascular disease, brain or neuronal-associated
CC diseases, and metabolic disorders, e.g. cancers of tissues, cancers of
CC hematopoietic origin, diseases of the central or peripheral nervous
CC system, Alzheimer's disease, Parkinson's disease, multiple sclerosis,
CC amyotrophic lateral sclerosis, viral infections, infections caused by
CC prions, infections caused by bacteria, infections caused by fungi, or
CC ocular diseases, migraine, pain, sexual dysfunction, mood disorders,
CC attention disorders, cognition disorders, hypertension, hyperkalemia,
CC psychotic disorders, neurological disorders, dyskinesias, metabolic
CC disorders, or organ transplant rejection and many other diseases
CC and disorders given in the specification. The polynucleotide is
CC useful in gene therapy techniques. The two novel kinases are
CC designated SGK341 (the gene is located on chromosome Xp22.1) and SGK351
CC (chromosome 17q22-25). The present sequence is a PCR primer used to
CC investigate the tissue specific expression of SGK351.

XX SQ Sequence 25 BP, 6 A, 6 C, 5 G, 8 T, 0 other;

Query Match 1.1%; Score 25; DB 23; Length 25;
Best Local Similarity 100.0%; Pred. No. 6.8e+03;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1087 CACCTTAAGTGGGAGAACTTCTGG 1111
DB 25 CACCTTAAGTGGGAGAACTTCTGG 1

RESULT 11

ABNS9017
ID AEN59017 standard; DNA; 60 BP.

XX AEN59017;

XX 15-JUL-2002 (first entry)

DE Human spliced transcript detection oligonucleotide SEQ ID NO:31765.

XX Human; mouse; rat; splice transcript; detection; RNA transcript;

KM splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

XX MO200210449-A2.

XX 07-FEB-2002.

XX 20-JUL-2001; 2001WO-IB01903.

XX 28-JUL-2001; 2000US-221607P.

XX 02-MAY-2001; 2001US-287724P.

XX (COMP-) COMEUGEN INC.

XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

XX WPI; 2002-257383/30.

PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes

XX Example 1; SEQ ID 31765; 47pp; English.

XX The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple

CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridizing selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialized mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN5589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.

CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 60 BP, 9 A, 14 C, 14 G, 23 T, 0 other;
Query Match 1.0%; Score 24.4; DB 24; Length 60;
Best Local Similarity 68.0%; Pred. No. 1.5e+04;
Matches 34; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1223 CTCTCAGTGAAGTGCACATCAGCTTTCTGGGTTTACATATGCGCT 1272
DB 11 CACCTAGTCTAATGCACATCAGCTTTCTGGGTTTACATATGCT 60

RESULT 12

AAV76048
ID AAV76048 standard; DNA; 57 BP.

XX AAV76048;

XX 16-MAR-1999 (first entry)

DE Staphylococcus aureus contig SEQ ID #1737.

XX Computer readable medium; vaccine; S.aureus infection; immunodetection;

KM cellulitis; eyelid infection; food poisoning; osteomyelitis; therapy;

KW skin infection; surgical wound infection; scalded skin syndrome;

XX toxic shock syndrome; ds.

XX Staphylococcus aureus.

XX EP786519-A2.

XX 30-JUL-1997.

XX 07-JAN-1997; 97EP-0100117.

XX 05-JAN-1996; 96US-0009861.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Barash SC, Choi GH, Dillon PJ, Fannon MR, Kunsch CA;

XX PI Rosen CA;

XX WPI; 1997-374922/35.

PT Polynucleotide(s) and proteins derived from Staphylococcus aureus
PT stored on computer readable medium and used in the production of
PT anti-S.aureus vaccines

XX Claim 1; Page 2046; 3271pp; English.

XX This sequence represents one of 5191 Staphylococcus aureus DNA sequences
CC of the invention. The DNA sequences are recorded on a computer readable

medium, preferably selected from a floppy or hard disk, random access memory (RAM), read-only memory (ROM) or CD-ROM. Homology searches using the S.aureus DNA sequences allows putative functions to be assigned so that protein-encoding or regulatory regions of commercial, therapeutic or industrial importance can be obtained. Specifically, sequences which are likely to encode antigens have been identified and these polypeptides can be used in a vaccine composition against S.aureus infection. The polypeptides can also be used in a kit for the immunodetection of S.aureus in a sample. S.aureus is implicated in numerous human diseases, including cellulitis, eyelid infections, food poisoning, osteomyelitis, skin and surgical wound infections, scalded skin syndrome, toxic shock syndrome, etc. Organisms transformed with the DNA sequences can be used for recombinant production of the polypeptides. The new DNA sequences (and their fragments) are useful as primers or probes for isolating homologues of any of the S.aureus DNA sequences contained on the computer readable medium.

Query Match 1.0%; Score 24.2; DB 18; Length 57;
Best Local Similarity 71.1%; Pred. No. 1.6e+04;
Matches 32; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 421 AGAATGCTAAAGATACGCTCATACAAAGCAGACGAAATATT 465
DB 1 AAAGAGCTAAAGAAAGATGATTAACAGCAAAAGGATTATT 45

RESULT 13
AAT32212
ID AAT32212 standard; DNA; 30 BP.

AC AAT32212;
XX
XX 26-SEP-1996 (first entry)
XX
XX Rat mitogen-activated S6 kinase p70s6kdeltan PCR primer.

XX PCR primer; polymerase chain reaction; amplification; construction;
XX transcription system; measurement; interaction; phosphatase; kinase
XX auto-inhibitory domain; identification; antagonist; agonist;
XX calcineurin; inhibition; T-cell activation; prevention; cancer;
XX graft rejection; treatment; arthritis; autoimmune disease; allergy;
XX psoriasis; Alzheimer's disease; regulation; cell proliferation;
XX rat; mitogen-activated S6 kinase; ss.

XX Synthetic.
XX WO9603501-A1.
XX
XX 08-FEB-1996.
XX
XX 12-JUL-1995; 95WO-EP02724.
XX
XX 22-JUL-1994; 94EP-0810435.
XX
XX (CIBA) CIBA GEIGY AG.
XX
XX Chaudhuri B, Furst P, Stephan C, Fuerst P;
XX WPI; 1996-117046/12.
XX
XX Transcription system for measuring interaction between phosphatase
XX or kinase and its auto-inhibitory domain - used to identify agonist
XX or antagonists of kinase(s) useful e.g. in preventing graft
XX rejection

XX Example 16; Page 66; 83pp; English.
XX The primer pair AAT32210/12 was used for the PCR amplification of
XX the rat mitogen-activated S6 kinase, p70s6kdeltad. The PCR prod.
XX was used in the construction of a transcription system (TS), for
XX measuring interaction between a phosphatase or kinase (POK),

including muteins or fragments which bind an autoinhibitory domain (AID), and an AID. The TS comprises the DNA binding domain (DBD) of a transcription factor (TF), and separately the transcription activation domain of a TF, where the domains are respectively linked to a 1st polypeptide comprising a POK (or an AID binding fragment), and a 2nd polypeptide comprising an AID able to bind the 1st polypeptide. The TS can be used for the identification of POK (antagonists, e.g. calcineurin (antagonists which can be used inhibit T-cell activation, e.g. to prevent graft rejection. Other possible applications of the (ant)agonists are in the treatment of cancer, arthritis, psoriasis, autoimmune disease, allergy and Alzheimer's disease, and in the regulation of cell proliferation.

Query Match 1.0%; Score 24; DB 17; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.4e+04;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 289 CCAGATGTTTGGAGCTACTTCGG 312
DB 7 CCAGATGTTTGGAGCTACTTCGG 30

RESULT 14
AAT32213
ID AAT32213 standard; DNA; 32 BP.

AC AAT32213;
XX
XX 26-SEP-1996 (first entry)
XX
XX Yeast ACE1-rat mitogen-activated S6 kinase fusion gene PCR primer.

XX PCR primer; polymerase chain reaction; amplification; construction;
XX transcription system; measurement; interaction; phosphatase; kinase
XX auto-inhibitory domain; identification; antagonist; agonist;
XX calcineurin; inhibition; T-cell activation; prevention; cancer;
XX graft rejection; treatment; arthritis; autoimmune disease; allergy;
XX psoriasis; Alzheimer's disease; regulation; cell proliferation;
XX rat; mitogen-activated S6 kinase; yeast; transcriptional activator;
XX fusion; ss.

XX Synthetic.
XX WO9603501-A1.
XX
XX 08-FEB-1996.
XX
XX 12-JUL-1995; 95WO-EP02724.
XX
XX 22-JUL-1994; 94EP-0810435.
XX
XX (CIBA) CIBA GEIGY AG.
XX
XX Chaudhuri B, Furst P, Stephan C, Fuerst P;
XX WPI; 1996-117046/12.
XX
XX Transcription system for measuring interaction between phosphatase
XX or kinase and its auto-inhibitory domain - used to identify agonist
XX or antagonists of kinase(s) useful e.g. in preventing graft
XX rejection

XX Example 17; Page 67; 83pp; English.
XX The primer pair AAT32210/13 was used for the PCR amplification of a
XX yeast transcriptional activator (ACE1)/rat mitogen-activated S6
XX kinase, fusion gene. The PCR prod. was used in the construction of
XX a transcription system (TS), for measuring interaction between a
XX phosphatase or kinase (POK), including muteins or fragments which
XX bind an autoinhibitory domain (AID), and an AID. The TS comprises

CC the DNA binding domain (DBD) of a transcription factor (TF), and
CC separately the transcription activation domain of a TF, where the
CC domains are respectively linked to a 1st polypeptide comprising a
CC POK (or an AID binding fragment), and a 2nd polypeptide comprising
CC an AID able to bind the 1st polypeptide. The TS can be used for
CC the identification of POK (ant)agonists, e.g. calcitriol
CC (ant)agonists which can be used inhibit T-cell activation, e.g. to
CC prevent graft rejection. Other possible applications of the
CC (ant)agonists are in the treatment of cancer, arthritis, psoriasis,
CC autoimmune disease, allergy and Alzheimer's disease, and in the
CC regulation of cell proliferation.

XX Sequence 32 BP; 12 A; 4 C; 5 G; 11 T; 0 other;

XX Query Match 1.0%; Score 23.8; DB 17; Length 32;

XX Best Local Similarity 92.6%; Pred. No. 1.6e+04; Mismatches 0; Gaps 0;

XX Matches 25; Conservative 0; Indels 0; Gaps 0;

QY 1290 TGTGAAAGAAAAGTTTCTTTGAACC 1316

DB 6 TGTGAAAGAAAAGTTTCTTTGAACC 32

RESULT 15 AAL29254/c

XX AAL29254 standard; DNA; 49 BP.

XX AAL29254;

XX 24-JUN-2002 (first entry)

XX Human SNP oligonucleotide #2462.

XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
XX neuroprotective; antineurobiol; gene therapy; vaccine; amyase; cancer;
XX amyloid protein; angiotensin; apoptosis related protein; cadherin;
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
XX complement related protein; cytochrome; kinesin; cytokine; interferon;
XX interleukin; G-protein coupled receptor; thioesterase; inflammation;
XX multifactorial disease; autoimmune disease; infection;
XX nervous system disease; ss.

XX Homo sapiens.

XX WO200147944-A2.

XX 05-JUL-2001.

XX 28-DEC-2000; 2000MO-US35498.

XX 28-DEC-1999; 99US-0173419.

XX 27-DEC-2000; 2000US-0173419.

XX (CURA-) CURAGEN CORP.

XX Shinkets RA, Leach M;

XX WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
XX oncogenes and histones, useful for diagnosing and treating, e.g.

XX cancer, autoimmune diseases and infections -

XX Claim 1; Page 2088; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinesins, cytokines, interferon, interleukins,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of

CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

XX Sequence 49 BP; 3 A; 3 C; 4 G; 39 T; 0 other;

XX Query Match 1.0%; Score 23.8; DB 22; Length 49;

XX Best Local Similarity 72.1%; Pred. No. 1.9e+04; Mismatches 0; Gaps 0;

XX Matches 31; Conservative 0; Indels 0; Gaps 0;

QY 1760 AAAAATCATCATGTCGCAAAAAAACTTAACCAATA 1802

DB 48 AAAATTAACATTAATGCGCCCAAAAAAAATTAATA 6

RESULT 16 ABN45373/c

XX ABN45373 standard; DNA; 60 BP.

XX ABN45373;

XX 15-JUL-2002 (first entry)

XX Human spliced transcript detection oligonucleotide SEQ ID NO:18121.

XX Human; mouse; rat; splice transcript; detection; RNA transcript;

XX splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

XX WO200210449-A2.

XX 07-FEB-2002.

XX 20-JUL-2001; 2001MO-1B01903.

XX 28-JUL-2000; 2000US-221607P.

XX 02-MAY-2001; 2001US-287724P.

XX (COMP-) COMPUGEN INC.

XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

XX WPI; 2002-257383/30.

XX Example 1; SEQ ID 18121; 47pp; English.

XX The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX transcription units that populate a genome. The library comprises
XX several oligonucleotides, each capable of hybridizing selectively to a
XX set of messenger RNAs transcribed from a given transcription unit of
XX the genome, which encodes one or more messenger RNA splice variants.
XX The oligonucleotide libraries are useful for detecting mRNAs from a
XX biological sample, in expression profiling studies, in qualitatively or
XX quantitatively characterizing the corresponding transcriptome, and in
XX detecting RNA transcripts and splice variants of human or animal
XX transcriptomes. The libraries may also be used as specialised mini
XX libraries to detect transcripts of a sub-transcriptome under a
XX particular biological or pathological state, and so allowing the
XX detection of tissue- and pathology-specific genes such as those genes
XX only expressed in specific tissue under a specific pathological

CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN59589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 60 BP; 8 A; 10 C; 13 G; 29 T; 0 other;
XX
Query Match 1.0%; Score 23.8; DB 24; Length 60;
Best Local Similarity 62.7%; Pred. No. 2.1e+04;
Matches 37; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
XX
QY 246 AATTCGAAACTGCTGGACACAGGCGCCGAAATAATCAGACCAATCTTTGAGC 304
DB 59 AACAGCAGACCTAGTAAAAACAAAGCAGTAAATTTGAGACCCAAATTTGACGC 1
XX
RESULT 17
ABN50683
ID AEN50683 standard; DNA; 60 BP.
XX
AC AEN50683;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human spliced transcript detection oligonucleotide SEQ ID NO:23431.
XX
KW Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.
XX
OS Homo sapiens.
XX
PN WO200210449-A2.
XX
PD 07-FEB-2002.
XX
PF 20-JUL-2001; 2001MO-IB01903.
XX
PR 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
XX
PA (COMP-) COMPUGEN INC.
XX
PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX
DR WPI; 2002-257383/30.
XX
PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes
XX
PS Example 1; SEQ ID 23431; 47pp; English.
XX
CC The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridizing selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological

CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN59589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 60 BP; 19 A; 11 C; 17 G; 13 T; 0 other;
XX
Query Match 1.0%; Score 23.8; DB 24; Length 60;
Best Local Similarity 66.7%; Pred. No. 2.1e+04;
Matches 34; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
XX
QY 2180 TTTAAATGCAATATTGTTGCTGGAAGAAGCAGACCACTCTCT 2230
DB 9 TTTACACTGTGCAGATTTTGAAGAGTGCATTAAGACAGGAACTACTCT 59
XX
RESULT 18
ABL00050
ID ABL00050 standard; DNA; 50 BP.
XX
AC ABL00050;
XX
DT 05-MAR-2002 (first entry)
XX
DE Human silent noncoding SNP oligonucleotide SEQ ID NO:41.
XX
KW Human; single nucleotide polymorphism; SNP; polymorphism; cytostatic;
KM immunosuppressive; antiinflammatory; neuroprotective; antimicrobial;
KM autoimmune disease; inflammation; cancer; nervous system disease;
XX
XX infection; polymorphic protein; ds.
XX
OS Homo sapiens.
XX
PN WO200138586-A2.
XX
PD 31-MAY-2001.
XX
PF 22-NOV-2000; 2000MO-US32311.
XX
PR 24-NOV-1999; 99US-0167383.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
DR WPI; 2001-355949/37.
XX
PT Isolated human nucleic acids comprising one or more single nucleotide
PT polymorphisms, useful for treating a subject suffering from a
PT pathology, e.g. autoimmune diseases, ascribed to the presence of a
PT sequence polymorphism
XX
PS Claim 1; Page 257; 674pp; English.
XX
CC ABL00010 to ABL01104 represent human nucleic acid oligonucleotides
CC comprising one or more single nucleotide polymorphisms (SNPs). ABB56531
CC to ABB56903 represent human peptides encoded by some of the SNP
CC oligonucleotides. The sequences from the present invention can have
CC immunosuppressive, cytostatic, antiinflammatory, neuroprotective and
CC antimicrobial activities. Nucleic acids, polypeptides, oligonucleotides
CC and antibodies from the present invention can be used for treating a
CC subject suffering from, at risk for, or suspected of, suffering from a
CC pathology ascribed to the presence of a sequence polymorphism. The
CC pathology may be autoimmune diseases, inflammation, cancer, diseases of
CC the nervous system, and infection by pathogenic microorganisms. The SNPs
CC are also useful for determining which forms of a characterised
CC polymorphism are present in individuals. The antibodies may be used in
CC the detection, quantitation and/or cellular or tissue localisation of a
CC polymorphic protein (e.g., for use in measuring levels of the

CC polymorphic protein within appropriate physiological samples).
XX
SQ Sequence 50 BP; 22 A; 5 C; 3 G; 20 T; 0 other;
Query Match 1.0%; Score 23.6; DB 23; Length 50;
Best Local Similarity 76.3%; Pred. No. 2.2e+04;
Matches 29; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY 2117 TATATTAATATATATTTTCAATAGATTTTGATCA 2154
DB 13 TATATATATATATTTTATCCAAAATATGTTTATACA 50
RESULT 19
AAL28430/C
ID AAL28430 standard; DNA; 51 BP.
XX
AC AAL28430;
XX
DT 24-JAN-2002 (first entry)
XX
DE Human SNP oligonucleotide #1638.
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinesin; cytokine; interferon;
KW interleukin; G-protein coupled receptor; cholestase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
OS Homo sapiens.
XX
PN MO200147944-A2.
XX
PD 05-JUL-2001.
XX
PF 28-DEC-2000; 2000MO-US35498.
XX
PR 28-DEC-1999; 99US-0173419.
XX
PR 27-DEC-2000; 2000US-0173419.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shinkets RA, Leach M;
XX
DR WPI; 2001-465210/50.
XX
PT Polymorphic nucleic acids encoding e.g. amyases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PT cancer, autoimmune diseases and infections -
XX
XX
PS Claim 1; Page 1849; 4143pp; English.
XX
CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
CC G-protein coupled receptors and cholestases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.
XX
SQ Sequence 51 BP; 8 A; 2 C; 1 G; 40 T; 0 other;

Query Match 1.0%; Score 23.6; DB 22; Length 51;
Best Local Similarity 69.6%; Pred. No. 2.2e+04;
Matches 32; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY 1757 TTTAAAAATCATCATGTCGCAAAAAAACTTAAGCAAAATA 1802
DB 51 TTTAAAAATMAAACATTTGATMAAAGAAAAAAGAAAAA 6
RESULT 20
AAH84250
ID AAH84250 standard; cDNA; 60 BP.
XX
AC AAH84250;
XX
DT 21-SEP-2001 (first entry)
XX
DE Human cell death protective cDNA clone CNI-00717 ORF24, SEQ:231.
XX
XX Cell death protective; apoptosis; necrosis; human; drug screening;
KW cell death-associated disorder; central nervous system disorder;
KW psychiatric disorder; neurological disorder; ischaemia-related disorder;
KW stroke; cerebral infarction; ischaemic encephalopathy;
KW neurodegenerative disorder; Alzheimer's disease; Huntington's disease;
KW Parkinson's disease; infection; meningitis; malaria; trypanosomiasis;
KW vascular disease; ophthalmological disorder; diabetic retinopathy;
KW macular degeneration; hypertension; myocardial infarction;
KW atherosclerosis; respiratory disorder; asthma; transgenic animal;
KW chronic obstructive pulmonary disease; neoplastic condition; cancer;
KW benign tumour; anaemia; gastrointestinal disorder; gastritis;
KW ulcerative colitis; liver disease; biliary cirrhosis; kidney disorder;
KW glomerulonephritis; cystitis; endometriosis; endocrine disorder;
KW Grave's disease; Hashimoto's thyroiditis; skin condition; dermatitis;
KW urticaria; immune disorder; acquired immunodeficiency syndrome; AIDS;
KW open reading frame; ORF; ss.
XX
XX
OS Homo sapiens.
XX
PN MO200145638-A2.
XX
PD 28-JUN-2001.
XX
PF 11-DEC-2000; 2000MO-US33547.
XX
PR 14-DEC-1999; 99US-0461697.
XX
PA (COGE-) COGENT NEUROSCIENCE INC.
XX
PI Lo DC, Barney S, Thomas MB, Portbury SD, Puranam K, Katz LC;
XX
DR WPI; 2001-390297/41.
XX
DR P-PDB; AAG98720.
XX
PT Novel protective sequence polymucleotides and polypeptides, used to
PT identify modulators of their expression and activity, which are used in
PT to treat central nervous system conditions, diseases and disorders -
XX
XX
PS Claim 2; Fig 9X; 325pp; English.
XX
CC Sequences AAH84132-AAH84370 represent human nucleic acid sequences which
CC protect against cell death (i.e., apoptosis or necrosis). Sequences
CC AAH84132, AAH84145, AAH84170, AAH84201, AAH84210, AAH84226, AAH84265,
CC AAH84281, AAH84315 and AAH84367 represent 10 full-length cDNA clones,
CC while the remaining nucleic acid sequences within the range given above
CC represent the open reading frames (ORFs) of these cDNA clones. Sequences
CC AAG98610-AAG98829 represent the polypeptides encoded by the cell death
CC protective ORFs. The cell death protective cDNA clones are able to
CC prevent, delay or reverse progression through the apoptotic or necrotic
CC pathways when injected into a cell predisposed to or undergoing cell
CC death. The cell death protective nucleic acids and polypeptides can be
CC used in the diagnosis and treatment of disorders associated with cell
CC death, and to screen for compounds which modulate their activity or

expression. Such modulators, preferably a small organic molecule, an antibody, a ribozyme, or an antisense molecule, can also be used to treat cell death-related diseases. Such diseases include those associated with the central nervous system including psychiatric or neurological disorders, especially ischaemia-related conditions such as strokes, and also includes neurodegenerative disorders such as Alzheimer's disease, Huntington's disease, or Parkinson's disease. The modulators may also be used to treat infections such as meningitis, malaria, or trypanosomiasis; vascular diseases such as ischaemic encephalopathy or cerebral infarction; eye conditions such as diabetic retinopathy or macular degeneration; hypertension; myocardial infarction; atherosclerosis; respiratory conditions such as asthma or chronic obstructive pulmonary disease; neoplastic conditions such as cancers or benign tumours; blood cell conditions such as anaemia; gastrointestinal conditions such as gastritis or ulcerative colitis; liver conditions such as biliary cirrhosis; kidney disorders such as glomerulonephritis; cystitis; endometriosis; endocrine disorders such as Graves' disease or Hashimoto's thyroiditis; skin conditions such as dermatitis or urticaria; or immune system disorders such as acquired immunodeficiency syndrome (AIDS). The nucleic acids may additionally be used to generate animal models of cell death-associated disorders. The present sequence represents a cell death protective ORF.

Sequence 60 BP, 31 A, 1 C, 20 G, 8 T, 0 other;

Query Match 1.0%; Score 23.6; DB 22; Length 60;
Best Local Similarity 64.8%; Pred. No. 2.4e+04;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

1635 AAAAAGTGGAGAGGAGATGTGTGAGCATCTGCAGAGTGAACAAACATCA 1688
7 AAGAAAGATGAAGTGGAAATGAGAAAGCTGGAAGAAAGAAAGATTAA 60

RESULT 21

AAS19340 standard; DNA; 58 BP.

AAS19340;

20-MAR-2002 (first entry)

Oligonucleotide 5981 used to construct plasmid XL2725.

ss; DNA purification; triple helix; plasmid purification;

Oligonucleotide 5981; XL2725.

Synthetic.

Key Location/Qualifiers

repeat_region

6..56

/*tag= a

/*tag= b

/*tag= "TANDEM"

repeat_unit

6..8

/*tag= b

/*tag= "TANDEM"

repeat_unit

6..8

/*tag= b

/*tag= "TANDEM"

repeat_unit

6..8

/*tag= b

/*tag= "TANDEM"

repeat_unit

6..8

/*tag= b

/*tag= "TANDEM"

repeat_unit

6..8

/*tag= b

comprising a covalently coupled oligonucleotide able to form a triple helix with the dsDNA

Example 7.1; Page 20; 40pp; English.

This invention comprises a method of purifying double-stranded DNA from a solution containing the double-stranded DNA mixed with other components, comprising passing the solution through a support comprising a covalently coupled oligonucleotide capable of forming a triple helix with the double-stranded DNA by hybridisation with a specific sequence present in the double-stranded DNA. The method is useful for purifying double-stranded DNA contained in a solution and mixed with other components. The new method is a simple, rapid and effective method for DNA purification, and makes it possible to obtain especially high purities with high yields. The method enables DNA to be purified from complex mixtures comprising other nucleic acids, proteins, endotoxins, nucleases and the like. The supports may be readily recycled, and the DNAs obtained display improved properties to pharmaceutical safety. Further, the method entails only one step contrary to prior art. The present sequence represents an oligonucleotide 5981 used to create the XL2725 plasmid which was used in an example of the DNA purification method of the invention.

Sequence 58 BP, 18 A, 2 C, 37 G, 1 T, 0 other;

Query Match 1.0%; Score 23.4; DB 24; Length 58;
Best Local Similarity 63.2%; Pred. No. 2.7e+04;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

118 GACCTGACCAAGCAGAGAGAGGCGCTGAGAGTACGCTGAGAGAGGGGGCTCAG 174
1 GATCCGAG 57

RESULT 22

AAT22872/c

AAT22872;

29-AUG-1996 (first entry)

Human gene signature HUMGS04557.

Gene signature; messenger RNA; mRNA; relative abundance; frequency;

human; cloning; mapping; non-biased library; diagnosis; detection;

cell typing; abnormal cell function; ss.

Homo sapiens.

WO9514772-A1.

01-JUN-1995.

11-NOV-1994; 94WO-JP01916.

12-NOV-1993; 93JP-0355504.

(MATSU) MATSUBARA K.

(OKUBO) OKUBO K.

Matsubara K, Okubo K;

WPI; 1995-206931/27.

Identifying gene signatures in 3'-directed human cDNA library - e.g.

for diagnosis of abnormal cell function, by preparing cDNA that

reflects relative abundance of corresp. mRNA in specific human

tissues

Claim 1; Page 1231; 2245pp; Japanese.

A single-stranded DNA (or its complementary strand or the corresp.

CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyloses, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,

CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyloses, amyloid proteins, angiotensin
CC converting enzyme, apolipoprotein A-II, apolipoprotein A-III, apolipoprotein
CC A-I, apolipoprotein A-II, apolipoprotein A-IV, apolipoprotein A-V, apolipoprotein
CC A-VI, apolipoprotein A-VII, apolipoprotein A-VIII, apolipoprotein A-IX,
CC apolipoprotein A-X, apolipoprotein A-XI, apolipoprotein A-XII, apolipoprotein
CC A-XIII, apolipoprotein A-XIV, apolipoprotein A-XV, apolipoprotein A-XVI,
CC apolipoprotein A-XVII, apolipoprotein A-XVIII, apolipoprotein A-XIX,
CC apolipoprotein A-XX, apolipoprotein A-XXI, apolipoprotein A-XXII, apolipoprotein
CC A-XXIII, apolipoprotein A-XXIV, apolipoprotein A-XXV, apolipoprotein A-XXVI,
CC apolipoprotein A-XXVII, apolipoprotein A-XXVIII, apolipoprotein A-XXIX,
CC apolipoprotein A-XXX, apolipoprotein A-XXXI, apolipoprotein A-XXXII,
CC apolipoprotein A-XXXIII, apolipoprotein A-XXXIV, apolipoprotein A-XXXV,
CC apolipoprotein A-XXXVI, apolipoprotein A-XXXVII, apolipoprotein A-XXXVIII,
CC apolipoprotein A-XXXIX, apolipoprotein A-XXXX, apolipoprotein A-XXXXI,
CC apolipoprotein A-XXXXII, apolipoprotein A-XXXXIII, apolipoprotein A-XXXXIV,
CC apolipoprotein A-XXXXV, apolipoprotein A-XXXXVI, apolipoprotein A-XXXXVII,
CC apolipoprotein A-XXXXVIII, apolipoprotein A-XXXXIX, apolipoprotein A-XXXXX,
CC apolipoprotein A-XXXXXI, apolipoprotein A-XXXXXII, apolipoprotein A-XXXXXIII,
CC apolipoprotein A-XXXXXIV, apolipoprotein A-XXXXXV, apolipoprotein A-XXXXXVI,
CC apolipoprotein A-XXXXXVII, apolipoprotein A-XXXXXVIII, apolipoprotein A-XXXXXIX,
CC apolipoprotein A-XXXXXX, apolipoprotein A-XXXXXXI, apolipoprotein A-XXXXXXII,
CC apolipoprotein A-XXXXXXIII, apolipoprotein A-XXXXXXIV, apolipoprotein A-XXXXXXV,
CC apolipoprotein A-XXXXXXVI, apolipoprotein A-XXXXXXVII, apolipoprotein A-XXXXXXVIII,
CC apolipoprotein A-XXXXXXIX, apolipoprotein A-XXXXXXX, apolipoprotein A-XXXXXXXI,
CC apolipoprotein A-XXXXXXXII, apolipoprotein A-XXXXXXXIII, apolipoprotein A-XXXXXXXIV,
CC apolipoprotein A-XXXXXXXV, apolipoprotein A-XXXXXXXVI, apolipoprotein A-XXXXXXXVII,
CC apolipoprotein A-XXXXXXXVIII, apolipoprotein A-XXXXXXXIX, apolipoprotein A-XXXXXXX
CC by them may be used in the prevention, diagnosis and treatment of

CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.
XX
SQ Sequence 51 BP; 5 A; 4 C; 4 G; 38 T; 0 other;
XX
Query Match 1.0%; Score 23.2; DB 22; Length 51;
Best Local Similarity 70.5%; Pred. No. 2.8e+04;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
Qy 1759 TAAATAATCATCATGTGCAAAAAAACTTAAGCAATA 1802
Db 45 TAAATAATCATGTGCAAAAAAACTTAAGCAATA 2
XX
RESULT 25
ABN34677 standard; DNA; 60 BP.
XX
AC ABN34677;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human spliced transcript detection oligonucleotide SEQ ID NO:7425.
XX
KW Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.
XX
OS Homo sapiens.
XX
PN WO200210449-A2.
XX
PD 07-FEB-2002.
XX
PF 20-JUL-2001; 2001WO-IB01903.
XX
PR 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
XX
XX (COMP-) COMPUGEN INC.
XX
PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX
DR WPI; 2002-257383/30.
XX
PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -
XX
PS Example 1; SEQ ID 7425; 47bp; English.
XX
CC The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridizing selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological

CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN55589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pat_sequences.
XX
SQ Sequence 60 BP; 17 A; 19 C; 11 G; 13 T; 0 other;
XX
Query Match 1.0%; Score 23.2; DB 24; Length 60;
Best Local Similarity 65.4%; Pred. No. 3.1e+04;
Matches 34; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
Qy 1538 GGCCATACAAAACAAAGCTTTTCCATGATCTCAACGCGCAGACACT 1589
Db 5 GGAGCTCAAAAGCTTGTGCTTGGCCGAGCTTCTTCAATAGACCCCT 56
XX
RESULT 26
AAH44691/c
ID AAH44691 standard; DNA; 41 BP.
XX
AC AAH44691;
XX
DT 07-DEC-2001 (first entry)
XX
DE Human type-I aminoacyl tRNA synthetase 10 probe 2 SEQ ID NO:9.
XX
KW Human; type-I aminoacyl tRNA synthetase 10; malignant tumour;
KW hemopathy; human immunodeficiency virus; HIV infection;
KW immunological disease; inflammation; probe; ss.
XX
OS Homo sapiens.
XX
PN CN1301715-A.
XX
PD 04-JUL-2001.
XX
PF 27-DEC-1999; 99CN-0125371.
XX
PR 27-DEC-1999; 99CN-0125371.
XX
XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX
PI Mao Y, Xie Y;
XX
DR WPI; 2001-550469/62.
XX
PT New polypeptide-I-type aminoacyl tRNA synthetase 10 and encoding
PT polynucleotide useful for treating tumor, hemopathy, infection and
PT immunological disease -
XX
PS Example 7; Page 20 (Disclosure); 32pp; Chinese.
XX
CC The present invention describes the human type-I aminoacyl tRNA
CC synthetase 10 protein. Also described are polynucleotides encoding the
CC type-I amino acyl tRNA synthetase 10 protein, and a DNA recombination
CC process to produce the protein. The protein can be used for treating
CC various diseases, such as malignant tumour, haemopathy, human
CC immunodeficiency virus infection, immunological diseases and various
CC inflammations. The present sequence represents a probe for type-I
CC aminoacyl tRNA synthetase 10, which is used in an example from the
CC present invention.
XX
SQ Sequence 41 BP; 3 A; 5 C; 4 G; 29 T; 0 other;
XX
Query Match 1.0%; Score 22.8; DB 22; Length 41;
Best Local Similarity 79.4%; Pred. No. 3.2e+04;
Matches 27; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 2045 AAAATGGAGGCAAGCAAGCAAGAACTTACCA 2078

Db 37 AAAAAAAAAAGCAAGAAAAAGAACTTACAA 4

RESULT 27
AAZ67514/c
ID AAZ67514 standard; DNA; 47 BP.
XX
AC AAZ67514;
XX
XX 10-SEP-2001 (first entry)
DT
XX Human map-related diallelic marker SEQ ID NO:1861.
DE
XX Human genome; diallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW diagnosis; single nucleotide polymorphism; SNP; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT variation replace(24,T)
FT /*tag= a
/standard_name= "single nucleotide polymorphism"
XX
PN MO9954500-A2.
XX
XX 28-OCT-1999.
XX
XX 21-APR-1999; 99WO-IB00822.
XX
XX 21-APR-1998; 98US-0082614.
XX
XX 23-NOV-1998; 98US-0109732.
XX
XX (GEST) GENSET.
XX
XX Cohen D, Blumenfeld M, Chumakov I;
XX
XX WPI, 2000-013267/01.
XX
XX Novel diallelic markers used to construct a high density disequilibrium
XX map of the human genome -
XX
XX
XX Claim 1; Page 627; 2745bp; English.
XX
XX AAZ65654 to AAZ69578 represent human diallelic markers from the present
XX invention, which contain a polymorphic base at position 24 of their
XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX primers for the diallelic markers. The diallelic markers of the
XX invention have a variety of uses: they can be used for high density
XX mapping of the human genome, and in complex association studies and
XX haplotyping studies which are useful in determining the genetic basis
XX for disease states. Compositions and methods of the invention can also
XX be useful for the identification of the targets for the development of
XX pharmaceutical agents and diagnostic methods, as well as the
XX characterisation of the differential efficacious responses to and side
XX effects from pharmaceutical agents acting on a disease as well as other
XX treatment.
XX N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
XX and 3367, are not actually given a sequence in the Sequence listing
XX from the present invention.
XX
XX
XX Sequence 47 BP; 17 A; 7 C; 6 G; 17 T; 0 other;

Query Match 1.0%; Score 22.8; DB 21; Length 47;
Best Local Similarity 79.4%; Pred. No. 3.5e+04;
Matches 27; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 2217 CAGACAACTTCTGTTCTCTCTGCGAATAA 2250
DB 47 CAGAAAACTTCAGTTCTTCATTTGTAATAA 14

RESULT 28
AAZ23542
ID AAZ23542 standard; DNA; 48 BP.
XX
AC AAZ23542;
XX
XX 21-DEC-1999 (first entry)
DT
XX Human DNA fragment 1.
DE
XX Assay; amplification; hybridisation; probe; detection; viral; bacterial;
KW cellular; yeast; fungal; primer; ss.
XX
XX Homo sapiens.
XX
XX DE19814828-A1.
XX
XX 07-OCT-1999.
XX
XX 02-APR-1998; 98DE-1014828.
XX
XX 02-APR-1998; 98DE-1014828.
XX
XX (HOFF) ROCHE DIAGNOSTICS GMBH.
XX
XX Kessler C, Habermansen G, Batz H, Oerum H;
XX
XX WPI, 1999-552286/47.
XX
XX Nucleic acid amplification assay for detecting viral, bacterial,
XX cellular, yeast or fungal nucleic acids -
XX
XX Disclosure; Fig 4; 28pp; German.

XX
XX This invention describes a novel assay for a nucleic acid comprises:
XX (a) generating amplification products from a fragment of the nucleic
XX acid, (b) contacting the amplification products with a probe; and
XX (c) detecting hybridization between the amplification product and the
XX probe. The assay is useful for detection of viral, bacterial, cellular,
XX yeast or fungal nucleic acids in human, animal, bacterial, plant, yeast
XX or fungal samples, e.g. feces, smears, cell suspensions, cultures or
XX tissue, cell or liquid biopsy samples. This sequence represents a
XX fragment of the human genome which is used in the method of the
XX invention.
XX
XX
XX Sequence 48 BP; 9 A; 17 C; 14 G; 8 T; 0 other;

Query Match 1.0%; Score 22.8; DB 20; Length 48;
Best Local Similarity 71.4%; Pred. No. 3.5e+04;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 874 ATGTATGACATGCTGACTGAGACACCCCACTTCATCTGGAG 915
DB 4 ATGTGTGTGCTGACAGCTCCAGACCCCACTCCCGGAGAG 45

RESULT 29
ABN71559/c
ID ABN71559 standard; DNA; 48 BP.
XX
AC ABN71559;
XX
XX 01-UTL-2002 (first entry)
DT
XX Streptococcus agalactiae PCR primer SEQ ID NO 10999.
DE
XX Streptococcus; GAS; GBS; group B streptococcus; Streptococcus agalactiae;
KW group A streptococcus; Streptococcus pyogenes; antibacterial; PCR; ss;
KW antiinflammatory; infection; vaccine; meningitis; gene therapy; primer.
XX
XX Streptococcus agalactiae.
OS Synthetic.

PN WO200147944-A2.
PD 05-JUL-2001.
PP 28-DEC-2000; 2000WO-US35498.
PR 28-DEC-1999; 99US-0173419.
PR 27-DEC-2000; 2000US-0173419.
PA (CURA-) CURAGEN CORP.
PI Shinkets RA, Leach M;
PI WPI; 2001-465210/50.
PT polynorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PS cancer, autoimmune diseases and infections -
PS Claim 1; Page 2908; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of
XX diseases associated with inappropriate expression of the proteins listed
XX above. Disorders that may be prevented, diagnosed and/or treated include
XX multifactorial diseases with a genetic component, such as autoimmune
XX diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
XX systemic lupus erythematosus and Grave's disease), inflammation, cancer
XX (e.g. cancers of the bladder, brain, breast, colon and kidney,
XX leukæmia), diseases of the nervous system and an infection of pathogenic
XX organisms.

XX Sequence 51 BP; 17 A; 5 C; 5 G; 24 T; 0 other;

XX Query Match 1.0%; Score 22.8; DB 22; Length 51;
XX Best Local Similarity 71.4%; Pred. No. 3.6e+04;
XX Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0.

QY 2120 ATTAATATATAATTTTCAAGTAGATTTTGATTGACGTGCATT 2161
DB 7 AGAAGAATTTTTTTTCAGATGATTTTTGAACACTTTTATT 48

RESULT 32
AAC78364/c ID AAC78364 standard; cDNA; 60 BP.
XX AAC78364;
XX
DE 08-FEB-2001 (first entry)
Human cancer associated gene sequence SEQ ID NO:758.

XX Human, cancer associated gene; cancer antigen; detection; cancer;
KW diagnosis; cytostatic; proliferative; vulnery; immunomodulator;
KW antidiabetic; antiasthmatic; antirheumatic; antiatheritic; antiviral;
KW antiinflammatory; antihistoid; antiallergic; antibacterial; cardiant;
KW dematological; neuroprotective; thrombolytic; coagulant; neotropic;
KW vasotropic; antipsoriatic; angiogenic; gene therapy; inflammation;
KW immune disorder; haematopoietic cell disorder; autoimmune disorder;
KW allelic reaction; graft versus host disease; organ rejection;
KW haemostatic; thrombolytic; cardiovascular disorder; infection;
KW neurological disease; drug screening; ss.
XX Homo sapiens.
OS WO200055350-A1.
XX
XX

```

XX PD 21-SEP-2000.
XX PD 08-MAR-2000; 2000MO-US05982.
XX PF 12-MAR-1999; 99US-0124270.
XX PR 12-MAR-1999; 99US-0124270.
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Rosen CA, Ruben SM,
XX PP WPI; 2000-587533/55.
XX DR P-PADB; AAB44155.
XX PT Novel isolated nucleic acids comprising sequences encoding peptides
PT useful for treating or diagnosing e.g. cancer -
XX PS Claim 1; Page 1305; 2352pp; English.
XX CC AAC76707 to AAC78448 encode the human cancer associated proteins given
CC in AAB43398 to AAB44233. The proteins can have activities based on the
CC tissues and cells the genes are expressed in. Example of activities
CC include: cystostatic; proliferative; vulnerability; immunomodulator;
CC antidiabetic; antiasthmatic; antirheumatic; antithyroid;
CC antiinflammatory; antihypertensive; anticancer; antibacterial; antiviral;
CC dermatological; neuroprotective; cardiactant; thrombolytic; coagulant;
CC neurotropic; vasotropic; antiproliferative and angiogenic. The
CC polynucleotides and polypeptides can be used for preventing, treating or
CC ameliorating medical conditions and diagnosing pathological conditions.
CC Polynucleotides, polypeptides, antibodies, agonists and antagonists from
CC the present invention may be used to treat immune disorders by activating
CC or inhibiting the proliferation, differentiation or mobilisation of
CC immune cells; to treat disorders of haematopoietic cells, autoimmune
CC disorders, allergic reactions, graft versus host disease and organ
CC rejection, modulate haemostatic or thrombolytic activity, modulate
CC inflammation, cancers, cardiovascular disorders, neurological disease and
CC bacterial or viral infections. The peptides, nucleotides, antibodies,
CC agonists and antagonists may be also be used in drug screens. AAC78449 to
CC AAC78457 and AAB44240 represent sequences used in the exemplification of
CC the present invention.
XX SQ Sequence 60 BP; 10 A; 2 C; 5 G; 38 T; 5 other;

Query Match 1.0%; Score 22.8; DB 21; Length 60;
Best Local Similarity 63.8%; Pred. No. 3.9e+04;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1756 TTTTAAATAATCATCAATGCTGCAGAAAAAACAATTAAAGCAAATA 1802
Db 56 TTTTAAATAATCAATGCTGCAGAAAAAACAATTAAAGCAAATA 1802

RESULT 33
ID AA266546/c
ID AA266546 standard; DNA, 47 BP.
XX AA266546;
XX AC
XX DT 10-SEP-2001 (first entry)
XX DD Human map-related diallelic marker SEQ ID NO:993.
XX HH Human genome; diallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridization; identification; characterisation;
KW diagnosis; single nucleotide polymorphism; SNP; ds.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
FT replace(24,G)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
```

XX	FN	WO9954500-A2.	
XX	FD	28-OCT-1999.	
XX	PF	21-APR-1999;	99WO-IB00822.
XX	PR	21-APR-1998;	98US--0082614.
XX	PR	23-NOV-1998;	98US-0109732.
XX	PA	(GEST) GENSET.	
XX	PI	Cohen D, Blumentfeld M, Chumakov I;	
XX	DR	WPI; 2000-013267/01.	
XX	PT	Novel biallelic markers used to construct a high density disequilibrium	
XX	PT	map of the human genome . -	
XX	PS	Claim 1; Page 421; 2745pp; English.	
XX	CC	AA265654 to AA269578 represent human biallelic markers from the present	
XX	CC	invention, which contain a polymorphic base at position 24 of their	
XX	CC	nucleotide sequences. AA269579 to AA277440 represent amplification	
XX	CC	primers for the biallelic markers. The biallelic markers of the	
XX	CC	invention have a variety of uses: they can be used for high density	
XX	CC	mapping of the human genome, and in complex association studies and	
XX	CC	haplotyping studies which are useful in determining the genetic basis	
XX	CC	for disease states. Compositions and methods of the invention can also	
XX	CC	be useful for the identification of the targets for the development of	
XX	CC	pharmaceutical agents and diagnostic methods, as well as the	
XX	CC	characterisation of the differential efficacious responses to and side	
XX	CC	effects from pharmaceutical agents acting on a disease as well as other	
XX	CC	treatment.	
XX	CC	N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297	
XX	CC	and 3367, are not actually given a sequence in the Sequence Listing	
XX	CC	from the present invention.	
XX	SQ	Sequence 47 BP; 19 A; 5 C; 4 G; 19 T; 0 other;	
XX	Query Match	1.0%; Score 22.6; DB 21; Length 47;	
XX	Best Local Similarity	68.9%; Pred. No. 3.9e+04;	
XX	Matches	31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;	
XX	Qy	2106 AATCTTTTATATATAATATATATTTTCAAAATGATTTTGA 2150	
XX	Db	47 ATTCTTTGTAATAAAGTCAATAATATTTTAAAAAATGAGTTTGA 3	
XX	RESULT 34		
XX	AA269126/C		
XX	ID	AA269126 standard; DNA; 47 BP.	
XX	AC	AA269126;	
XX	DT	10-SEP-2001 (first entry)	
XX	DE	Human map-related biallelic marker SEQ ID NO:3482.	
XX	KW	Human genome; biallelic marker; high density disequilibrium map;	
XX	KW	genomic map; haplotype; phenotype; polymorphic base; genotyping;	
XX	KW	haplotyping; hybridisation; identification; characterisation;	
XX	diagnosis;	single nucleotide polymorphism; SNP; ds.	
XX	OS	Homo sapiens.	
XX	Key	Location/Qualifiers	
XX	FT	variation	replace(24,A)
XX	FT	/*tag= a	
XX	FT	/standard_name= "single nucleotide polymorphism"	
XX	FN	WO9954500-A2.	
XX	XX		

PD	28-OCT-1999.
XX	
PF	21-APR-1999; 99WO-IB00822.
XX	
XX	21-APR-1998; 98US-0082614.
PR	23-NOV-1998; 98US-0109732.
XX	
PA	(GEST) GENSET.
XX	
P1	Cohen D, Blumenfeld M, Chumakov I;
XX	
DR	WPI; 2000-013267/01.
PT	Novel biallelic markers used to construct a high density disequilibrium
PT	map of the human genome -
XX	
PS	Claim 3; Page 973; 2745pp; English.
XX	
CC	AAZ65654 to AAZ69578 represent human biallelic markers from the present
CC	invention, which contain a polymorphic base at position 24 of their
CC	nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
CC	primers for the biallelic markers. The biallelic markers of the
CC	invention have a variety of uses; they can be used for high density
CC	mapping of the human genome, and in complex association studies and
CC	haplotyping studies which are useful in determining the genetic basis
CC	for disease states. Compositions and methods of the invention can also
CC	be useful for the identification of the targets for the development of
CC	pharmaceutical agents and diagnostic methods, as well as the
CC	characterisation of the differential efficacious responses to and side
CC	effects from pharmaceutical agents acting on a disease as well as other
CC	treatment.
CC	N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
CC	and 3367, are not actually given a sequence in the Sequence Listing
CC	from the present invention.
XX	
SQ	Sequence 47 BP; 21 A; 2 C; 1 G; 23 T; 0 other;
	Query Match 1.0%; Score 22.6; DB 21; Length 47;
	Best Local Similarity 68.9%; Pred. No. 3.9e+04;
	Matches 31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
OY	2100 AACCGAATCTTTTATTATAATATATATTTTCAAATGAT 2144 47 AATATAATATTGTAGTTAAAAAATATATATTTTATTATTAAAT 3
DB	
RESULT .35	
ID	AAH38300/c
XX	AAH38300 standard; DNA; 51 BP.
AC	AAH38300;
XX	
DT	14-AUG-2001 (first entry)
DE	Human SNP flanking oligonucleotide SEQ ID 1096.
XX	
KM	Single nucleotide polymorphism; SNP; single nucleotide primer extension;
KM	SNPE; genotyping; agammaglobulinemia; diabetes insipidus; cancer;
KM	Leisch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia;
KM	polycystic kidney disease; osteogenesis imperfecta; autoimmune disease;
KM	acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
KM	inflammation; forensic investigation; paternity analysis; dr.
XX	
OS	Homo sapiens.
PN	WO200129262-A2.
PD	26-APR-2001.
XX	
PF	13-OCT-2000; 2000WO-US28436.
XX	
PR	15-OCT-1999; 99US-0160096.
XX	

PA (ORCH-) ORCHID BIOSCIENCES INC.
 XX
 PI Picoult-Newburg L, Pohl M;
 XX
 XX WPI; 2001-290930/30.
 DR
 XX
 PT New genotyping oligonucleotide, useful for detecting the presence,
 PT absence or identity of single polynucleotide polymorphism in a nucleic
 PT acid sample
 XX
 PS Claim 1; Page 55; 83pp; English.
 XX
 XX Sequences AAH37205 - AAH4094 represent PCR primers, single nucleotide
 CC primer extension (SNPE) primers, and the sequences of regions flanking
 CC sites of single nucleotide polymorphisms SNPs. The present invention
 CC includes kits for determining the presence or absence of a SNP, using the
 CC oligonucleotides of the invention. The PCR primers are used to amplify a
 CC SNP flanking sequence, the SNPs primer is used as a genotyping primer.
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by
 CC performing a single-nucleotide primer extension reaction. The
 CC oligonucleotides are useful for determining the presence, absence or
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to
 CC assess by association analysis the genotype of an individual or group of
 CC individuals, having a pathological phenotypic trait suspected of being
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.
 CC agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular
 CC dystrophy, familial hypercholesterolemia, polycystic kidney disease,
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic
 CC traits also include symptoms of or susceptibility to multifactorial
 CC disease of which a component is or may be genetic such as autoimmune
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,
 CC inflammation, cancer, nervous system diseases and infection by pathogenic
 CC microorganism. The method is also useful in forensic investigations and
 CC paternity analysis. The present sequence represents a fragment of human
 CC DNA flanking the site of a single nucleotide polymorphism.
 XX
 SQ Sequence 51 BP; 13 A; 9 C; 8 G; 20 T; 1 other;
 Query Match 1.0%; Score 22.6; DB 22; Length 51;
 Best Local Similarity 68.9%; Pred. No. 4e+04;
 Matches 31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
 QY 406 AAGGCATGATAGTAAAGATGCTTAAGATACAGCTCATACAAA 450
 DB 51 ATGGCATGATATTCAGACACATACAGATATCTCTGTAAGAAA 7
 RESULT 36
 AAV65911
 ID AAV65911 standard; DNA; 54 BP.
 AC AAV65911;
 XX
 XX 02-FEB-1999 (first entry)
 DT
 XX
 XX HCMV target DNA for invasive cleavage.
 DE
 XX
 XX Nucleic acid detection; multiple sequential invasive cleavage;
 KW Invader-directed cleavage assay; nuclease; FEN-1; HCMV; ss.
 XX
 XX Human cytomegalovirus.
 OS
 XX
 XX MO9842873-A1.
 PN
 XX
 XX 01-OCT-1998.
 PD
 XX
 XX 24-MAR-1998; 98WO-US05809.
 PF
 XX
 XX 24-MAR-1997; 97US-0823516.
 PR
 XX
 XX (THIR-) THIRD WAVE TECHNOLOGIES INC.
 PA
 XX
 PI Brow MAD, Hall JG, Kwiatkowski RW, Lyamlichev VI;

PI Mast AL, Vavra SH;
 XX
 XX WPI; 1998-557036/47.
 DR
 XX
 XX Detecting target nucleic acid by sequence-specific cleavage of
 PT complex with two specific oligonucleotides - used to detect
 PT cytomegalovirus DNA
 PT
 XX
 PS Example 48; Page 358; 524pp; English.
 XX
 XX This nucleotide sequence corresponds to nucleotides 3057-3110 of
 CC human cytomegalovirus (HCMV) genomic DNA. It was used as a target
 CC to demonstrate invasive cleavage using Invader oligonucleotide
 CC 89-44 (AAV65909), fluorescein-labelled probe 89-76 (see AAV65910) and
 CC Fnu FEN-1 nuclease (see AAV79970). The invader-directed cleavage
 CC reaction and the sequential invader-directed cleavage reaction of
 CC the present invention provide direct detection methods that combine
 CC the advantages of direct detection assays with the specificity
 CC provided by a dual or tri oligonucleotide hybridisation assay. The
 CC invention relates to means for the detection and characterisation
 CC of nucleic acid sequences, and variations in nucleic acid sequences.
 XX
 SQ Sequence 54 BP; 14 A; 7 C; 25 G; 8 T; 0 other;
 Query Match 1.0%; Score 22.6; DB 19; Length 54;
 Best Local Similarity 75.7%; Pred. No. 4.2e+04;
 Matches 28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
 QY 128 AGCCAGAGAGCGGGCTCTGAGGATGAGCTGAGGA 164
 DB 4 AGGAGAGGAGGAGGAGGCTCAGAGAGAGCGGAGGA 40
 RESULT 37
 AEN35460
 ID AEN35460 standard; DNA; 60 BP.
 AC AEN35460;
 XX
 XX 15-UTL-2002 (first entry)
 DT
 XX
 XX Human spliced transcript detection oligonucleotide SEQ ID NO:8208.
 DE
 XX
 XX Human; mouse; rat; splice transcript; detection; RNA transcript;
 KW splice variant; transcriptome; oligonucleotide library; ss.
 XX
 XX Homo sapiens.
 OS
 XX
 XX MO200210449-A2.
 PN
 XX
 XX 07-FEB-2002.
 PD
 XX
 XX 20-UTL-2001; 2001WO-1B01903.
 PF
 XX
 XX 28-UTL-2000; 2000US-221607P.
 PR
 XX
 XX 02-MAY-2001; 2001US-287724P.
 XX
 XX (COMP-) COMPUGEN INC.
 PA
 XX
 XX Shoshan A, Maeserman A, Mintz E, Mintz L, Faigler S;
 PI
 XX
 XX WPI; 2002-257383/30.
 DR
 XX
 XX New oligonucleotide libraries comprising oligonucleotides which
 PT selectively hybridize to mRNAs transcribed from a transcription unit of
 PT a genome, useful for detecting tissue-, pathology-, and
 PT developmental-specific genes
 PT
 XX
 PS Example 1; SEQ ID 8208; 47pp; English.
 XX
 XX The present invention describes oligonucleotide libraries for detecting
 CC messenger RNAs that populate a (sub-)transcriptome, where the
 CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple

transcription units that populate a genome. The library comprises several oligonucleotides, each capable of hybridizing selectively to a set of messenger RNAs transcribed from a given transcription unit of the genome, which encodes one or more messenger RNA splice variants. The oligonucleotide libraries are useful for detecting mRNAs from a biological sample, in expression profiling studies, in qualitatively or quantitatively characterizing the corresponding transcriptome, and in detecting RNA transcripts and splice variants of human or animal transcriptomes. The libraries may also be used as specialised mini libraries to detect transcripts of a sub-transcriptome under a particular biological or pathological state, and so allowing the detection of tissue- and pathology-specific genes such as those genes only expressed in specific tissue under a specific pathological condition; to detect developmental specific genes; and to detect RNA transcripts and splice variants of a transcriptome of a patient suffering from a particular disorder. ABN27253 to ABN59589 represent oligonucleotide sequences from rats, humans and mice, which are used in the exemplification of the present invention.

N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 60 BP; 15 A; 11 C; 18 G; 16 T; 0 other;

Query Match 1.0%; Score 22.6; DB 24; Length 60;
Best Local Similarity 64.2%; Pred. No. 4.4e+04;
Matches 34; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1030 CGTCTGGAGCTGTCTCTCTGGAGAGCTGAGAGTTCAGCTCATCTTTCTT 1082
DB 2 CGTCTGGAGCTGTCTCTCTGGAGAGCTGAGAGTTCAGCTCATCTTTCTT 54

RESULT 38
ABN46663/C
ID ABN46663 standard; DNA; 60 BP.

XX ABN46663;

XX 15-JUL-2002 (first entry)

XX Human spliced transcript detection oligonucleotide SEQ ID NO:19411.

XX Human; mouse; rat; splice transcript; detection; RNA transcript;
XX splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

XX WO200210449-A2.

XX 07-FEB-2002.

XX 20-JUL-2001; 2001WO-IB01903.

XX 28-JUL-2000; 2000US-221607P.

XX 02-MAY-2001; 2001US-287724P.

XX (COMP-) COMPUGEN INC.

XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

XX WPI; 2002-257383/30.

XX New oligonucleotide libraries comprising oligonucleotides which
XX selectively hybridize to mRNAs transcribed from a transcription unit of
XX a genome, useful for detecting tissue-, pathology-, and
XX developmental-specific genes

XX Example 1; SEQ ID 19411; 47bp; English.

XX The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple

transcription units that populate a genome. The library comprises several oligonucleotides, each capable of hybridizing selectively to a set of messenger RNAs transcribed from a given transcription unit of the genome, which encodes one or more messenger RNA splice variants. The oligonucleotide libraries are useful for detecting mRNAs from a biological sample, in expression profiling studies, in qualitatively or quantitatively characterizing the corresponding transcriptome, and in detecting RNA transcripts and splice variants of human or animal transcriptomes. The libraries may also be used as specialised mini libraries to detect transcripts of a sub-transcriptome under a particular biological or pathological state, and so allowing the detection of tissue- and pathology-specific genes such as those genes only expressed in specific tissue under a specific pathological condition; to detect developmental specific genes; and to detect RNA transcripts and splice variants of a transcriptome of a patient suffering from a particular disorder. ABN27253 to ABN59589 represent oligonucleotide sequences from rats, humans and mice, which are used in the exemplification of the present invention.

N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 60 BP; 10 A; 18 C; 14 G; 18 T; 0 other;

Query Match 1.0%; Score 22.6; DB 24; Length 60;
Best Local Similarity 64.2%; Pred. No. 4.4e+04;
Matches 34; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1534 CAAAAGCTGAGAGGAGAGTGTGTGAGCATCTCGAGGTGAACAAGATC 1686
DB 60 CAAAAGCTGAGAGTGTGTGAGCATCTCGAGGTGAACAAGATC 8

RESULT 39
AAQ69313
ID AAQ69313 standard; DNA; 44 BP.

XX AAQ69313;

XX 22-FEB-1995 (first entry)

XX Human sodium/potassium ATPase alpha 3 subunit gene, target region.

XX DNA protein-binding assay; test sequence; screening sequence;
XX promoter; target; TATA box; Herpes Simplex Virus; HSV;
XX origin of replication; UL9; transcription factor; TPLID;

XX ATP1 A3; ds.

XX Synthetic.

XX WO9414980-A.

XX 07-JUL-1994.

XX 20-DEC-1993; 93WO-US12388.

XX 23-DEC-1992; 92US-0996783.

XX 17-SEP-1993; 93US-0123936.

XX (GENE-) GENELABS TECHNOLOGIES INC.

XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;

XX WPI; 1994-234711/28.

XX Sequence-directed DNA-binding molecules - useful in
XX pharmaceuticals and as molecular reagents

XX Claim 28; Page 243; 587bp; English.

XX A DNA protein-binding assay is provided, useful for screening
XX libraries of synthetic or biological cpds. for their ability
XX to bind DNA test sequences. The assay is versatile in that any

CC number of test sequences can be tested by placing the test sequence
CC adjacent to a defined protein-binding screening sequence. Binding
CC of mols. to these test sequences changes the binding characteristics
CC of the protein mol. to its cognate binding sequence. When such a mol.
CC binds the test sequence, the equilibrium of the DNA:protein complexes
CC is disturbed, generating changes in the concentration of free DNA probe.
CC One application of this method is to eucaryotic general transcription
CC factors (e.g. TFIID), where the target region is typically selected
CC from DNA sequences adjacent to the binding site for the eucaryotic
CC transcription factor. Numerous exemplary test sequences are given:
CC the sequences in AA069251-731 and AA069850 correspond to promoter
CC targets (typically, TATA box-contg. sites) for human genes and the
CC sequences in AA069732-849 correspond to promoter targets for viral genes.
CC The test sequences may also be randomly generated. DNA:protein
CC interaction may be used for screening purposes, e.g. the Herpes Simplex
CC Virus (HSV) origin of replication and UL9 (see AA069851-52, AA069865 and
CC AA069891).

XX Sequence 44 BP; 6 A; 15 C; 20 G; 3 T; 0 other;

Query Match 1.0%; Score 22.4; DB 15; Length 44;

Best Local Similarity 72.5%; Pred. No. 4.2e+04; Mismatches 11; Indels 0; Gaps 0;

Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 9 CTGCGCGGGTCCGGCCCATGAGCGCAGAGAGGCGG 48
Db 4 CTCGCCGCGACGCGGCGCATATGAGAGCGGAGCGGCGG 43

RESULT 40
AA063775
ID AA063775 standard; DNA; 44 BP.

XX AAT63775;

DT 13-MAR-1997 (first entry)

XX Human Na/K ATPase alpha 3 subunit (ATP1 A3) gene TFIID binding site.

XX Duplex DNA: target region; binding characteristic; DNA binding protein;
XX TFIID; transcription factor; binding site; inhibition; enhance;
XX cancer; inherited genetic disorder; ds.

XX Homo sapiens.

XX US5578444-A.

XX 26-NOV-1996.

XX 27-JUN-1991; 91US-0723618.

XX 20-DEC-1993; 93US-0171389.

XX 27-JUN-1991; 91US-0723618.

XX 23-DEC-1992; 92US-0996783.

XX 17-SEP-1993; 93US-0123936.

XX (GENE-) GENELABS TECHNOLOGIES INC.

XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;

XX WPI; 1997-020402/02.

XX Altering binding characteristics of DNA binding proteins to duplex
XX DNA - by attaching specific small cpd. to target region close to the
XX protein's binding site, useful in treatment of viral disease, cancer
XX etc

XX Claim 6; Column 131; 264pp; English.

XX The sequences given in AAT63713-4312 represent duplex DNA's which act.
XX as target regions in the method of the invention. The method for
XX altering the binding characteristics of a DNA-binding protein to duplex
XX DNA comprises contacting the duplex DNA with a small molecule which

CC binds sequence-specifically to a target region, where, when the small
CC molecule is bound to the target region, it is adjacent to, but not
CC overlapping by more than 4 bp, a binding site for a DNA-binding protein.
CC The small molecule is added at a concentration effective to alter the
CC binding of the DNA binding protein, pref. TFIID, to its binding site on
CC the duplex DNA. The binding of the small molecule may inhibit or
CC enhance the binding of the DNA-binding protein to its binding site. The
CC compounds isolated using this method are potentially useful as
CC therapeutic agents for treatment of any disease which involves a
CC specific DNA sequence, e.g. cancer, or inherited genetic disorders etc.
CC The method is suitable for screening large biological or chemical
CC libraries and allows determination of sequence-specific and relative
CC affinities of known DNA-binding agents for different DNA sequences.
CC The design of these duplex DNA's allows a single DNA:protein interaction
CC to be used for screening sequence-specific, or preferential, DNA binding
CC proteins that recognise almost any possible sequence (see also AAT9539-
CC 74).

XX Sequence 44 BP; 6 A; 15 C; 20 G; 3 T; 0 other;

Query Match 1.0%; Score 22.4; DB 18; Length 44;

Best Local Similarity 72.5%; Pred. No. 4.2e+04; Mismatches 11; Indels 0; Gaps 0;

Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 9 CTGCGCGGGTCCGGCCCATGAGCGCAGAGAGGCGG 48
Db 4 CTCGCCGCGACGCGGCGCATATGAGAGCGGAGCGGCGG 43

RESULT 41
AA017063
ID AA017063 standard; DNA; 44 BP.

XX AAX17063;

DT 06-MAY-1999 (first entry)

XX Test sequence from human sodium/potassium ATPase alpha 3 subunit.

XX Test sequence; DNA-binding molecule; screening sequence; human;
XX nucleic acid amplification; target; viral; ds.

XX Homo sapiens.

XX US5869241-A.

XX 09-FEB-1999.

XX 07-JUN-1995; 95US-0475228.

XX 20-DEC-1993; 93US-0171389.

XX 27-JUN-1991; 91US-0723618.

XX 23-DEC-1992; 92US-0996783.

XX 17-SEP-1993; 93US-0123936.

XX 07-JUN-1995; 95US-0475228.

XX (GENE-) GENELABS TECHNOLOGIES INC.

XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;

XX WPI; 1999-152755/13.

XX Determination of DNA sequence preference of a DNA-binding molecule -
XX based on inhibition of binding of protein to oligonucleotide
XX sequence attached to test sequence

XX Claim 3; Columns 131-132; 270pp; English.

XX Sequences AAX17001 to AAX17600 represent specifically claimed target
XX test sequences that are used in the method of the invention of
XX determining the DNA sequence preference of a DNA-binding molecule. The
XX method comprises: (1) adding a test molecule and a DNA-binding protein to
XX a mixture of duplex DNA test oligonucleotides, each of the test

CC oligonucleotides having a test sequence adjacent to a screening sequence,
 CC where the screening sequence binds to the DNA-binding protein with a
 CC binding affinity that is independent of the DNA sequence of the test
 CC sequence, and where the mixture of duplex DNA test oligonucleotides
 CC includes several test sequences; (ii) incubating the test molecule, the
 CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein
 CC for a time sufficient to permit binding of the test molecule to test
 CC sequences in the duplex DNA; (iii) separating unbound test
 CC oligonucleotides from test oligonucleotides bound to binding protein;
 CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps
 CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and
 CC (vii) sequencing the isolated test oligonucleotides. Test sequences
 CC AAX17001-X17481 and AAX17600 correspond to promoter targets for human
 CC genes and test sequences AAX17482-X17599 correspond to promoter targets
 CC for viral genes.

CC Sequence 44 BP; 6 A; 15 C; 20 G; 3 T; 0 other;

Query Match 1.0%; Score 22.4; DB 20; Length 44;
 Best Local Similarity 72.5%; Pred. No. 4.2e+04;
 Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 9 CTGGCGCGGTCGCCCATGAGCGAGCGAGCGCGG 48
 4 CTCCCGCGAGCGCGCATATGAGAGCGAGCGCGCGG 43

RESULT 42

ABK82554 standard; DNA; 44 BP.

ABK82554;

27-AUG-2002 (first entry)

DNA binding molecule screening method test sequence #63.

DNA binding molecule screening; inhibition of transcription;
 infection; human immunodeficiency virus; HIV; parasite; cancer;
 cardiovascular; respiratory; gastrointestinal; endocrine; metabolic;
 rheumatic; immunological; haematological; neurological;
 psychiatric; dermatological; ophthalmological; musculo-skeletal;
 urogenital disorder; ss.

Synthetic.

US6384208-B1.

07-MAY-2002.

15-JUL-1999; 99US-0354947.

20-DEC-1993; 93US-0171389.

07-JUN-1995; 95US-0482080.

27-JUN-1991; 91US-0723618.

23-DEC-1992; 92US-0996783.

17-SEP-1993; 93US-0123936.

(GENE-) GENELABS TECHNOLOGIES INC.

Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;

WPI; 2002-442819/47.

Decreasing transcriptional activity of genes for treating infections or
 cancer, by administration of an agent that binds to two non-overlapping
 regions of the gene

Example 15; SEQ ID No 63; 98pp; English.

The invention relates to a method of decreasing transcriptional activity
 in a duplex deoxyribonucleic acid (DNA) template (T1) comprising
 contacting (T1) with a binding agent comprising at least one small duplex

CC DNA-binding molecule (T2) coupled to at least one other small duplex-
 CC binding molecule that binds to a non-overlapping region of target
 CC sequence (T3). The method is useful for inhibiting transcription of a
 CC range of disease-related genes for treating infections (by viruses,
 CC including human immunodeficiency virus, bacteria, fungi, protozoa
 CC and parasites), cancer, cardiovascular, respiratory, gastrointestinal,
 CC endocrine/metabolic, rheumatic/immunological, haematological,
 CC neurological, psychiatric, dermatological, ophthalmological,
 CC musculo-skeletal, genetic or urogenital disorders. The method provides
 CC sequence-specific inhibition of transcription of pathological genes
 CC without affecting transcription of cellular genes regulated by the same
 CC transcription factor, and can be applied to regulation of any gene.
 CC AAK82492-AAK83155 represent DNA binding molecule test sequences used in
 CC the method of the invention.

CC Sequence 44 BP; 6 A; 15 C; 20 G; 3 T; 0 other;

Query Match 1.0%; Score 22.4; DB 24; Length 44;
 Best Local Similarity 72.5%; Pred. No. 4.2e+04;
 Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 9 CTGGCGCGGTCGCCCATGAGCGAGCGAGCGCGG 48
 4 CTCCCGCGAGCGCGCATATGAGAGCGAGCGCGCGG 43

RESULT 43

AAF29313/c standard; DNA; 48 BP.

AAF29313;

18-APR-2001 (first entry)

Primer base sequence used to illustrate primer selection method.

Primer; optimum sequence; differential display; ss.

Synthetic.

JP2000308487-A.

07-NOV-2000.

30-MAR-1999; 99JP-0088410.

30-MAR-1999; 99JP-0088410.

(KAGA-) KAGAKU GIUTSU SHINKO JIGYODAN.

WPI; 2001-046077/06.

Selection of primer base for optimizing primer selection comprises
 obtaining an optimum sequence for differential display from an
 expression gene data base

Disclosure; Fig 9; 13pp; Japanese.

This invention relates to a method for selecting the sequence of a
 primer. The method comprises obtaining an optimum sequence for
 differential display from an expression gene data base, and using the
 base sequences most frequently expressed as the primer candidates in the
 order of frequency. The optimum primer group characterised by the use of
 CC genetic algorithm from the primer candidates is selected. The method is
 CC used for selecting a primer sequence quickly. The present sequence
 CC represents a primer used in an illustration of the method of the
 CC invention.

Sequence 48 BP; 15 A; 3 C; 3 G; 27 T; 0 other;

Query Match 1.0%; Score 22.4; DB 22; Length 48;
 Best Local Similarity 66.7%; Pred. No. 4.4e+04;
 Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

KW nervous system disease; ss.
XX Homo sapiens.
XX WO200147944-A2.
XX 05-JUL-2001.
XX 28-DEC-2000; 2000WO-US95498.
XX 28-DEC-1999; 99US-0173419.
XX 27-DEC-2000; 2000US-0173419.
XX (CURA-) CURAGEN CORP.
XX Shimketa RA, Leach M;
XX WPI; 2001-465210/50.
XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
XX oncoenes and histones, useful for diagnosing and treating, e.g.
XX cancer, autoimmune diseases and infections -
XX Claim 1, Page 2912; 4143pp; English.
XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytokines, kinesins, cytochromes, interferons, interleukin,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of
XX diseases associated with inappropriate expression of the proteins listed
XX above. Disorders that may be prevented, diagnosed and/or treated include
XX multifactorial diseases with a genetic component, such as autoimmune
XX diseases (e.g. Rheumatoid arthritis, multiple sclerosis, diabetes,
XX systemic lupus erythematosus and Grave's disease), inflammation, cancer
XX (e.g. cancers of the bladder, brain, breast, colon and kidney,
XX leukemia), diseases of the nervous system and an infection of pathogenic
XX organisms.
XX Sequence 51 BP; 18 A; 6 C; 5 G; 22 T; 0 other;
SQ
Query Match 1.0%; Score 22.4; DB 22; Length 51;
Best Local Similarity 66.7%; Pred. No. 4.6e+04;
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 1592 GTATGAATCTATGACAGCAATGCTTTTAATGAATTAAGCAAAA 1639
Db 4 GTACATTTTATTAACAGCAATTTTCTATCAATTCGAATGCTTTAA 51
RESULT 47
AAO69462
ID AAO69462 standard; DNA; 45 BP.
XX
AC AAO69462;
XX
DT 27-FEB-1995 (first entry)
XX
DE Human interleukin 4 gene, target region.
XX
KW DNA protein-binding assay; test sequence; screening sequence;
KW promoter; target; TATA box; Herpes Simplex Virus; HSV;
KW origin of replication; UL9; transcription factor; TFIID; ds.
XX
XX Synthetic.
XX
XX WO9414980-A.
XX
XX 07-JUL-1994.
XX

PF 20-DEC-1993; 93WO-US12388.
XX
XX 23-DEC-1992; 92US-0996783.
XX 17-SEP-1993; 93US-0123936.
XX
XX (GENE-) GENELABS TECHNOLOGIES INC.
XX
XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
XX WPI; 1994-234711/28.
XX
XX Sequence-directed DNA-binding molecules - useful in
XX pharmaceuticals and as molecular reagents
XX
XX Claim 28; Page 318; 587pp; English.
XX
XX A DNA protein-binding assay is provided, useful for screening
XX libraries of synthetic or biological cpds. for their ability
XX to bind DNA test sequences. The assay is versatile in that any
XX number of test sequences can be tested by placing the test sequence
XX adjacent to a defined protein-binding, screening sequence. Binding
XX of mols. to these test sequences changes the binding characteristics
XX of the protein mol. to its cognate binding sequence. When such a mol.
XX binds the test sequence, the equilibrium of the DNA:protein complex
XX is disturbed, generating changes in the concentration of free DNA probe.
XX One application of this method is to eucaryotic general transcription
XX factors (e.g. TFIID), where the target region is typically selected
XX from DNA sequences adjacent to the binding site for the eucaryotic
XX transcription factor. Numerous exemplary test sequences are given:
XX the sequences in AAO69251-731 and AAO69850 correspond to promoter
XX targets (typically, TATA box-contg. sites) for human genes and the
XX sequences in AAO69732-849 correspond to promoter targets for viral genes.
XX The test sequences may also be randomly generated. DNA:protein
XX interaction may be used for screening purposes, e.g. the Herpes Simplex
XX virus (HSV) origin of replication and UL9 (see AAO69851-52, AAO69865 and
XX AAO69891).
XX
SQ Sequence 45 BP; 13 A; 10 C; 7 G; 15 T; 0 other;
Query Match 0.9%; Score 22.2; DB 15; Length 45;
Best Local Similarity 77.1%; Pred. No. 4.8e+04;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 933 TGACCAAAATCCTCAATGTAACTCAATTTGCTC 967
Db 9 TTAACGAAATTTCCAAATGTAACTCAATTTGCTC 43
RESULT 48
AAT63924
ID AAT63924 standard; DNA; 45 BP.
XX
AC AAT63924;
XX
DT 17-MAR-1997 (first entry)
XX
DE Human interleukin-4 gene TFIID binding site.
XX
KW Duplex DNA; target region; binding characteristic; DNA binding protein;
KW TFIID; transcription factor; binding site; inhibition; enhance; IL-2;
KW cancer; inherited genetic disorder; alpha-D-galactosidase A; ds.
XX
XX Homo sapiens.
XX
XX US5578444-A.
XX
XX 26-NOV-1996.
XX
XX 27-JUN-1991; 91US-0723618.
XX
XX 20-DEC-1993; 93US-0171389.
XX 27-JUN-1991; 91US-0723618.
XX 23-DEC-1992; 92US-0996783.
XX

PR 17-SEP-1993; 93US-0123936.
 XX (GENE-) GENELABS TECHNOLOGIES INC.
 XX
 XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
 PI WPI, 1997-020402/02.
 DR
 XX
 PT Altering binding characteristics of DNA binding proteins to duplex
 PT DNA - by attaching specific small cpd. to target region close to the
 PT protein's binding site, useful in treatment of viral disease, cancer
 PT etc
 PS
 PS Claim 6; Column 207-208; 264pp; English.
 CC The sequences given in AAT63713-4312 represent duplex DNA's which act
 CC as target regions in the method of the invention. The method for
 CC altering the binding characteristics of a DNA-binding protein to duplex
 CC DNA comprises contacting the duplex DNA with a small molecule which
 CC binds sequence-specifically to a target region, where, when the small
 CC molecule is bound to the target region, it is adjacent to, but not
 CC overlapping by more than 4 bp, a binding site for a DNA-binding protein.
 CC The small molecule is added at a concentration effective to alter the
 CC binding of the DNA binding protein, pref. TFIID, to its binding site on
 CC the duplex DNA. The binding of the small molecule may inhibit or
 CC enhance the binding of the DNA-binding protein to its binding site. The
 CC compounds isolated using this method are potentially useful as
 CC therapeutic agents for treatment of any disease which involves a
 CC specific DNA sequence, e.g. cancer, or inherited genetic disorders etc.
 CC The method is suitable for screening large biological or chemical
 CC libraries and allows determination of sequence-specific and relative
 CC affinities of known DNA-binding agents for different DNA sequences.
 CC The design of these duplex DNA's allows a single DNA:protein interaction
 CC to be used for screening sequence-specific, or preferential, DNA binding
 CC proteins that recognise almost any possible sequence (see also AAT49539-
 CC 74).
 CC
 SQ Sequence 45 BP; 13 A; 10 C; 7 G; 15 T; 0 other;
 XX
 XX
 Query Match 0.9%; Score 22.2; DB 18; Length 45;
 Best Local Similarity 77.1%; Pred. No. 4.8e+04;
 Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 QY 933 TGACAAATCTCAATGTAACTCAATTGCTC 967
 DB 9 TAACGAAATTTCCATGTAACTCAATTGCTC 43
 RESULT 49
 AAX17212
 ID AAX17212 standard; DNA; 45 BP.
 XX
 AC AAX17212;
 XX
 DT 06-MAY-1999 (first entry)
 XX
 DE Test sequence from human interleukin 4 gene.
 XX
 KW Test sequence; DNA-binding molecule; screening sequence; human;
 KW nucleic acid amplification; target; viral; ds.
 XX
 OS Homo sapiens.
 XX
 PN US5869241-A.
 XX
 PD 09-FEB-1999.
 XX
 PF 07-JUN-1995; 95US-0475228.
 XX
 PR 20-DEC-1993; 93US-0171389.
 PR 27-JUN-1991; 91US-0723618.
 PR 23-DEC-1992; 92US-0996783.
 PR 17-SEP-1993; 93US-0123936.

PR 07-JUN-1995; 95US-0475228.
 XX (GENE-) GENELABS TECHNOLOGIES INC.
 XX
 XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
 PI WPI, 1999-152755/13.
 DR
 XX
 PT Determination of DNA sequence preference of a DNA-binding molecule -
 PT based on inhibition of binding of protein to oligonucleotide
 PT sequence attached to test sequence
 PS
 PS Claim 3; Columns 209-210; 270pp; English.
 CC Sequences AAX17001 to AAX17600 represent specifically claimed target
 CC test sequences that are used in the method of the invention of
 CC determining the DNA sequence preference of a DNA-binding molecule. The
 CC method comprises: (i) adding a test molecule and a DNA-binding protein to
 CC a mixture of duplex DNA test oligonucleotides, each of the test
 CC oligonucleotides having a test sequence adjacent to a screening sequence,
 CC where the screening sequence binds to the DNA-binding protein with a
 CC binding affinity that is independent of the DNA sequence of the test
 CC sequence, and where the mixture of duplex DNA test oligonucleotides
 CC includes several test sequences; (ii) incubating the test molecule, the
 CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein
 CC for a time sufficient to permit binding of the test molecule to test
 CC sequences in the duplex DNA; (iii) separating unbound test
 CC oligonucleotides from test oligonucleotides bound to binding protein;
 CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps
 CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and
 CC (vii) sequencing the isolated test oligonucleotides. Test sequences
 CC AAX17001-X17481 and AAX17600 correspond to promoter targets for human
 CC genes and test sequences AAX17482-X17599 correspond to promoter targets
 CC for viral genes.
 CC
 SQ Sequence 45 BP; 13 A; 10 C; 7 G; 15 T; 0 other;
 XX
 XX
 Query Match 0.9%; Score 22.2; DB 20; Length 45;
 Best Local Similarity 77.1%; Pred. No. 4.8e+04;
 Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 QY 933 TGACAAATCTCAATGTAACTCAATTGCTC 967
 DB 9 TAACGAAATTTCCATGTAACTCAATTGCTC 43
 RESULT 50
 ABR82703
 ID ABR82703 standard; DNA; 45 BP.
 XX
 AC ABR82703;
 XX
 DT 27-AUG-2002 (first entry)
 XX
 DE DNA binding molecule screening method test sequence #212.
 XX
 KW DNA binding molecule screening; inhibition of transcription;
 KW infection; human immunodeficiency virus; HIV; parasite; cancer;
 KW cardiovascular; respiratory; gastrointestinal; endocrine; metabolic;
 KW rheumatic; immunological; haematological; neurological;
 KW psychiatric; dermatological; ophthalmological; musculo-skeletal;
 KW urogenital disorder; ss.
 XX
 OS Synthetic.
 XX
 PN US6384208-B1.
 XX
 PD 07-MAY-2002.
 XX
 PF 15-JUL-1999; 99US-0354947.
 XX
 PR 20-DEC-1993; 93US-0171389.
 PR 07-JUN-1995; 95US-0482080.

PR 27-JUN-1991; 91US-0723618.
PR 23-DEC-1992; 92US-0996783.
PR 17-SEP-1993; 93US-0123936.
XX
XX (GENE-) GENELABS TECHNOLOGIES INC.
XX
XX Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;
XX WPI; 2002-442819/47.
XX
PT Decreasing transcriptional activity of genes for treating infections or
PT cancer, by administration of an agent that binds to two non-overlapping
PT regions of the gene -
XX
XX
PS Example 15; SEQ ID No 212; 98pp; English.
XX
XX The invention relates to a method of decreasing transcriptional activity
CC in a duplex deoxyribonucleic acid (DNA) template (T1) comprising
CC contacting (T1) with a binding agent comprising at least one small duplex
CC DNA-binding molecule (T2) coupled to at least one other small duplex-
CC binding molecule that binds to a non-overlapping region of target
CC sequence (TS). The method is useful for inhibiting transcription of a
CC range of disease-related genes for treating infections (by viruses,
CC including human immunodeficiency virus, bacteria, fungi, protozoa
CC and parasites), cancer, cardiovascular, respiratory, gastrointestinal,
CC endocrine/metabolic, rheumatic/immunological, ophthalmological,
CC neurological, psychiatric, dermatological, haematological,
CC musculo-skeletal, genetic or urogenital disorders. The method provides
CC sequence-specific inhibition of transcription of pathological genes
CC without affecting transcription of cellular genes regulated by the same
CC transcription factor, and can be applied to regulation of any gene.
CC ABK82492-ABK8315 represent DNA binding molecule test sequences used in
CC the method of the invention.
XX
SQ Sequence 45 BP; 13 A; 10 C; 7 G; 15 T; 0 other;

Query Match 0.9%; Score 22.2; DB 24; Length 45;
Best Local Similarity 77.1%; Pred. No. 4.8e+04;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 933 TGACMAATCTCAATGTAACTCAATTTGGCTC 967
DB 9 TAACGMAATTTCCAAATGTAATCAATTTCCCTC 43

RESULT 51
AAF29294
ID AAF29294 standard; DNA; 48 BP.
XX
XX AAF29294;
XX
DT 18-APR-2001 (first entry)
XX
XX Primer base sequence used to illustrate primer selection method.
XX
XX Primer; optimum sequence; differential display; ss.
XX
XX Synthetic.
XX
XX JP2000308487-A.
XX
XX 07-NOV-2000.
XX
XX 30-MAR-1999; 99JP-0088410.
XX
XX 30-MAR-1999; 99JP-0088410.
XX
XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
XX WPI; 2001-046077/06.
XX
PT Selection of primer base for optimizing primer selection comprises
PT obtaining an optimum sequence for differential display from an

PT expression gene data base -
XX
XX Disclosure; Fig 9; 13pp; Japanese.
XX
XX

CC This invention relates to a method for selecting the sequence of a
CC primer. The method comprises obtaining an optimum sequence for
CC differential display from an expression gene data base, and using the
CC base sequences most frequently expressed as the primer candidates in the
CC order of frequency. The optimum primer group characterised by the use of
CC genetic algorithm from the primer candidates is selected. The method is
CC used for selecting a primer sequence quickly. The present sequence
CC represents a primer used in an illustration of the method of the
CC invention.
XX
XX

SQ Sequence 48 BP; 17 A; 3 C; 2 G; 26 T; 0 other;

Query Match 0.9%; Score 22.2; DB 22; Length 48;
Best Local Similarity 69.8%; Pred. No. 5e+04;
Matches 30; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

OY 2097 AACAACTGAATCTTTTAAATATAATATTTTCAAA 2139
DB 5 ATCTTCTGAAGAATTTTATATATAAATTTATTTTCA 47

RESULT 52
AAL32145
ID AAL32145 standard; DNA; 51 BP.
XX
XX AAL32145;
XX
XX 24-JAN-2002 (first entry)
XX
XX

DE Human SNP oligonucleotide #5353.

XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cyrostatic;
XX neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
XX amyloid protein; angiotensin; apoptosis related protein; cadherin;
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
XX complement related protein; cytochrome; kinesin; cytokine; interferon;
XX interleukin; G-protein coupled receptor; cholesterae; inflammation;
XX multifactorial disease; autoimmune disease; infection;
XX nervous system disease; ss.
XX
XX

OS Homo sapiens.

XX
XX
XX WO200147944-A2.

XX
XX
XX 05-JUL-2001.

XX
XX
XX 28-DEC-2000; 2000MO-US35498.

XX
XX
XX 28-DEC-1999; 99US-0173419.

XX
XX
XX 27-DEC-2000; 2000US-0173419.

XX
XX
XX (CURA-) CURAGEN CORP.

XX
XX
XX Shimkets RA, Leach M;

XX
XX
XX WPI; 2001-465210/50.

XX
XX
XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
XX
XX oncogenes and histones, useful for diagnosing and treating, e.g.

XX
XX
XX cancer, autoimmune diseases and infections -

XX
XX
XX Claim 1, Page 2927; 4143pp; English.

XX
XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amylases, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinesins, cytokines, interferons, interleukin,
XX G-protein coupled receptors and thioesterases. The present sequence is

CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

XX Sequence 51 BP; 15 A; 7 C; 2 G; 27 T; 0 other;

Query Match 0.9%; Score 22.2; DB 22; Length 51;
Best Local Similarity 69.8%; Pred. No. 5.1e+04;
Matches 30; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2110 TTTTATTAATATATTTTCAATATTTTCAATTTTTCATT 2152
Db 2 TTTCTTTATATATACATATTTTCTCAACATAGTTATT 44

RESULT 53

ABN40059 standard; DNA; 60 BP.

AC ABN40059;

DT 15-JUL-2002 (first entry)

DE Human spliced transcript detection oligonucleotide SEQ ID NO:12807.

KM Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

PN WO200210449-A2.

PD 07-FEB-2002.

PF 20-JUL-2001; 2001MO-IB01903.

PR 28-JUL-2000; 2000US-221607P.

PR 02-MAY-2001; 2001US-287724P.

XX (COMP-) COMPUGEN INC.

PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

DR WPI; 2002-257383/30.

PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -

XX Example 1; SEQ ID 12807; 47pp; English.

XX The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX transcription units that populate a genome. The library comprises
XX several oligonucleotides, each capable of hybridizing selectively to a
XX set of messenger RNAs transcribed from a given transcription unit of
XX the genome, which encodes one or more messenger RNA splice variants.
XX The oligonucleotide libraries are useful for detecting mRNAs from a
XX biological sample, in expression profiling studies, in qualitatively or
XX quantitatively characterizing the corresponding transcriptome, and in
XX detecting RNA transcripts and splice variants of human or animal
XX transcriptomes. The libraries may also be used as specialised mini
XX libraries to detect transcripts of a sub-transcriptome under a
XX particular biological or pathological state, and so allowing the

CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN55589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 60 BP; 16 A; 10 C; 21 G; 13 T; 0 other;

Query Match 0.9%; Score 22.2; DB 24; Length 60;
Best Local Similarity 61.0%; Pred. No. 5.6e+04;
Matches 36; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 800 AATGATGCGCCCTGAAATGTTATGAGAGGCGCAATCGCTGCGATTGCTGG 858
Db 2 ATTACATAGCTCCCGAGTGCTGAGCAAGAAAGGCACAGTTTCGAGTGATGTGG 60

RESULT 54

ABN5158/C standard; DNA; 60 BP.

AC ABN5158;

DT 15-JUL-2002 (first entry)

DE Human spliced transcript detection oligonucleotide SEQ ID NO:17906.

KM Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

PN WO200210449-A2.

PD 07-FEB-2002.

PF 20-JUL-2001; 2001MO-IB01903.

PR 28-JUL-2000; 2000US-221607P.

PR 02-MAY-2001; 2001US-287724P.

XX (COMP-) COMPUGEN INC.

PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

DR WPI; 2002-257383/30.

PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -

XX Example 1; SEQ ID 17906; 47pp; English.

XX The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX transcription units that populate a genome. The library comprises
XX several oligonucleotides, each capable of hybridizing selectively to a
XX set of messenger RNAs transcribed from a given transcription unit of
XX the genome, which encodes one or more messenger RNA splice variants.
XX The oligonucleotide libraries are useful for detecting mRNAs from a
XX biological sample, in expression profiling studies, in qualitatively or
XX quantitatively characterizing the corresponding transcriptome, and in
XX detecting RNA transcripts and splice variants of human or animal
XX transcriptomes. The libraries may also be used as specialised mini
XX libraries to detect transcripts of a sub-transcriptome under a
XX particular biological or pathological state, and so allowing the

CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN59589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at http://wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 60 BP; 9 A; 26 C; 1 G; 24 T; 0 other;
XX
Query Match 0.9%; Score 22.2; DB 24; Length 60;
Best Local Similarity 61.0%; Pred. No. 5.6e+04;
Matches 36; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
QY 309 TCGGGTACTTGTAAGGGGGCTATGGAAGCTTTTCAAGTACGAAAGTAACAGAG 367
Db 60 TAGGGTAAATAGGAATGGGGGTAAGTAGAGTGAAGAAACCAAGAGATAAAGTAG 2
XX
RESULT 55
AAH44211/c
ID AAH44211 standard; DNA; 33 BP.
XX
XX AAH44211;
XX
XX 20-SEP-2001 (first entry)
XX
XX p70 S6K mutagenesis PCR primer #2.
XX
XX Protein kinase: identification; hydrophobic pocket; interacting;
XX cancer; diabetes; inhibition; apoptosis; tissue injury;
XX ischaemic injury; stroke; PCR primer; mutagenesis; se.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX WO200144497-A2.
XX
XX 21-JUN-2001.
XX
XX 04-DEC-2000; 2000MO-GB04598.
XX
XX 02-DEC-1999; 99US-0168559.
XX
XX (UYDU-) UNIV DUNDEE.
XX
XX Alessi D, Biondi R;
XX
XX WPI; 2001-390252/41.
XX
XX
XX identifying modulators of protein kinase (PK) activity, useful in
XX developing drugs for treating cancer or diabetes, by measuring the
XX ability of the compound to modulate or mimic the interaction of PK with
XX interacting polypeptides -
XX
XX
XX Example 1; Page 72; 180pp; English.
XX
XX The present invention describes a method for identifying a compound that
XX modulates protein kinase activity. The method comprises measuring the
XX ability of the compound to inhibit, promote or mimic the interaction of
XX a hydrophobic pocket-containing protein kinase with an interacting
XX polypeptide. The interacting polypeptide interacts with the hydrophobic
XX pocket of the protein kinase and/or comprises the amino acid sequence
XX Phe/Tyr-Xaa-Xaa-Phe/Tyr (1). The method is useful in screening assays
XX for developing pharmaceutical compounds or drugs. Compounds, polypeptides
XX or polynucleotides from the present invention are useful in medicine,
XX particularly in the manufacture of a medicament for treating a patient
XX in need of modulation of signalling by a hydrophobic pocket-containing
XX protein kinase. Specifically, the patient has cancer or diabetes or is
XX in need of inhibition of apoptosis, e.g. a patient suffering from tissue

CC injury or ischaemic injury, including stroke. The compound or
CC composition is also useful for inhibiting the degree or rate of
CC phosphorylation by the protein kinase. The interacting polypeptide or
CC compound is useful in methods of stabilising a hydrophobic pocket-
CC containing protein kinase, where the protein kinase is exposed to the
CC compound or polypeptide. AAB99786 to AAB99847 represent amino acid
CC sequences, and AAH44210 and AAH44211 represent oligonucleotide sequences,
CC used in the exemplification of the present invention.
XX
SQ Sequence 33 BP; 8 A; 10 C; 9 G; 6 T; 0 other;
XX
Query Match 0.9%; Score 22; DB 22; Length 33;
Best Local Similarity 100.0%; Pred. No. 4.7e+04;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1269 GGGCCATCTGTACTTGAAGT 1290
Db 33 GGCTCCATCTGTACTTGAAGT 12
XX
RESULT 56
ABA96305/c
ID ABA96305 standard; DNA; 39 BP.
XX
XX ABA96305;
XX
XX 18-MAR-2002 (first entry)
XX
XX LDL receptor allele-specific probe GC1a B.
XX
XX Amplification product; pharmacogenetic testing; forensic; virus; SNP;
XX anthropology; paternity testing; pathogen; bacteria; yeast; HIV;
XX single nucleotide polymorphism; mini-sequencing; mutation;
XX triplet repeat expansion; chromosome rearrangement; cystic fibrosis;
XX sickle-cell anaemia; LDL receptor; probe; se.
XX
XX Synthetic.
XX
XX WO200183823-A1.
XX
XX 08-NOV-2001.
XX
XX 30-APR-2001; 2001MO-US13979.
XX
XX 28-APR-2000; 2000US-200635P.
XX
XX (QUAN-) QUANTUM DOT CORP.
XX
XX Lai JH, Phillips VE, Watson AR;
XX
XX WPI; 2002-114152/15.
XX
XX
XX Analysis of polynucleotides in a sample using generic capture sequences
XX comprises amplifying target polynucleotide, and utilizing the product
XX to indirectly assay the sample for the polynucleotide -
XX
XX
XX Example 2; Page 47; 85pp; English.
XX
XX The invention relates to assaying for an amplification product from a
XX target polynucleotide. An amplification reaction is used to produce the
XX amplification product from the target polynucleotide so that it can be
XX used to indirectly assay the sample for the target polynucleotide. A
XX sample suspected of containing the target polynucleotide is contacted
XX with first and second primers to amplify the target polynucleotide;
XX the first primer comprises a tag sequence, the complement of which is formed
XX on the opposite strand during amplification and is referred to as a
XX capture label. A capture probe is provided that is conjugated to a
XX substrate and can bind to the capture sequence to form an amplification
XX product detection complex. Identification of the label in association
XX with the substrate demonstrates that the amplification product was formed
XX the target polynucleotide was present in the sample. The method is useful
XX for pharmacogenetic testing, for forensic or anthropological setting to
XX identify a species or individual which was the source of a specimen.

CC The method can also be used for paternity testing, testing for
 CC compatibility of prospective tissue or blood donors and in screening for
 CC hereditary disorders. Other applications include gene expression studies,
 CC human population genetics, to detect contaminants or pathogens including
 CC bacteria, yeast, viruses, for HIV subtyping and to detect single
 CC nucleotide polymorphisms associated with particular alleles or subsets of
 CC allele. The method is also useful for mini-sequencing and for detection
 CC of mutations, including without limitation SNPs, insertions, deletions,
 CC transversions, inversions, frame shifts, triplet repeat
 CC expansions and chromosome rearrangements. The method is useful to detect
 CC nucleotide sequences associated with increased risk of diseases or
 CC disorders, including cystic fibrosis, Tay-Sachs and sickle-cell anaemia.
 CC The present sequence is that of a probe for detection of allele-specific
 CC genomic DNA sequences from the LDL receptor in the method of the
 CC invention.

SO Sequence 39 BP; 3 A; 5 C; 5 G; 26 T; 0 other;

Query Match 0.9%; Score 22; DB 24; Length 39;
 Best Local Similarity 73.7%; Pred. No. 5.1e+04;
 Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1763 AATCATCATGTGCGAATAAATACTTAAGCAAA 1800
 Db 39 AATCAGTCACTGCGCCGAGAAAAAATAAATAA 2

RESULT 57
 AAX76470
 ID AAX76470 standard; DNA; 42 BP.

AC AAX76470;
 XX
 XX
 DT 05-AUG-1999 (first entry)
 DE Human BRCA1 interacting protein gene B112 PCR primer B112.2J.
 XX
 XX Human BRCA1 interacting protein; B112; CtIP; tumour suppressor;
 KM cancer; therapy; PCR primer; ss.
 XX
 XX Synthetic.
 OS Homo sapiens.
 XX
 XX WO9927075-A1.
 PN
 XX
 PD 03-JUN-1999.
 XX
 XX 20-NOV-1998; 98WO-US24831.
 PF
 XX
 PR 21-NOV-1997; 97US-0975703.
 XX
 XX (MYRI-) MYRIAD GENETICS INC.
 PA
 XX
 XX Bartel PL, Tavligian SV, Teng DHF, Wong AKC;
 PI WPI; 1999-357827/30.
 XX
 DR WPI; 1999-357827/30.
 XX
 PT A carboxy-terminal BRCA1 interacting protein
 XX
 PS Example 4; Page 42; 93pp; English.
 XX
 XX The present invention describes a human BRCA1 interacting protein,
 CC designated B112. BRCA1 is a tumour suppressor protein. Methods and
 CC compositions from the present invention are useful for diagnosis of,
 CC determining predisposition to, or lack of predisposition to, and
 CC treatment of human cancer, such as breast or pancreatic cancer, as a
 CC result of a mutation in CtIP or BRCA1. The methods and compositions can
 CC also be used in rational drug design for cancer therapeutics. The
 CC present sequence represents a PCR primer for B112 which is used in an
 CC example from the present invention.

SO Sequence 42 BP; 15 A; 11 C; 10 G; 6 T; 0 other;

Query Match 0.9%; Score 22; DB 20; Length 42;
 Best Local Similarity 73.7%; Pred. No. 5.3e+04;
 Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 2034 TTTTCCAGCGCAAAATGGAAGCAAGCAAGCAAA 2071
 Db 2 TTTTCCAGTCACTGCGCCGAGAAAAAATCAACAGAAACA 39

RESULT 58
 AAZ67996
 ID AAZ67996 standard; DNA; 47 BP.
 AC AAZ67996;
 XX
 XX
 DT 10-SEP-2001 (first entry)
 DE Human map-related diallelic marker SEQ ID NO:2343.
 XX
 XX Human genome; diallelic marker; high density disequilibrium map;
 KM genomic map; haplotype; phenotype; polymorphic base; genotyping;
 KW haplotyping; hybridisation; identification; characterisation;
 KM diagnosis; single nucleotide polymorphism; SNP; ds.
 XX
 XX Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers
 FH variation /tag=a
 FT /standard_name="single nucleotide polymorphism"
 FT

WO9954500-A2.
 XX
 XX 28-OCT-1999.
 PD
 XX
 XX 21-APR-1999; 99WO-IB00822.
 PF
 XX
 XX 21-APR-1998; 98US-0082614.
 PR 23-NOV-1998; 98US-0109732.
 XX
 XX (SEST) GENSET.
 PA
 XX
 XX Cohen D, Blumenfeld M, Chumakov I;
 PI WPI; 2000-013267/01.
 DR
 XX
 XX Novel diallelic markers used to construct a high density disequilibrium
 PT map of the human genome
 XX
 XX Claim 3; Page 730; 2745pp; English.
 PS
 XX
 XX AAZ65654 to AAZ69578 represent human diallelic markers from the present
 CC invention, which contain a polymorphic base at position 24 of their
 CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
 CC primers for the diallelic markers. The diallelic markers of the
 CC invention have a variety of uses: they can be used for high density
 CC mapping of the human genome, and in complex association studies and
 CC haplotyping studies which are useful in determining the genetic basis
 CC for disease states. Compositions and methods of the invention can also
 CC be useful for the identification of the targets for the development of
 CC pharmaceutical agents and diagnostic methods, as well as the
 CC characterisation of the differential efficacious responses to and side
 CC effects from pharmaceutical agents acting on a disease as well as other
 CC treatment.
 CC N.B. The SEQ ID Nos 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
 CC and 3367, are not actually given a sequence in the sequence listing
 CC from the present invention.

SO Sequence 47 BP; 33 A; 4 C; 1 G; 9 T; 0 other;

Query Match 0.9%; Score 22; DB 21; Length 47;
 Best Local Similarity 73.7%; Pred. No. 5.6e+04;
 Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Oy 1760 AAAAATCAATCATGTGCACAAAAAACTTAAGCA 1797
DB 5 AAAAAATTAATTAATAACAAATTAATAAATAAACA 42

RESULT 59
AAA64611

ID AAA64611 standard; DNA; 47 BP.

AC AAA64611;

DT 02-JAN-2001 (first entry)

DE AU rich sequence in 3' UTR of human GM-CSF.

XX OLD-35; OLD-64; OLD-137; OLD-139; OLD-142; OLD-175; cancerous phenotype;
KM cellular senescence; terminal differentiation; growth suppression;
KM aging process; type I interferon; cancer cell; tissue regeneration; ss.

XX Homo sapiens.

XX WO200046391-A2.

XX 10-AUG-2000.

XX 02-FEB-2000; 2000WO-US02920.

XX 02-FEB-1999; 99US-0243277.

XX (UYCO) UNIV COLUMBIA NEW YORK.

XX Fisher PB, Leszczynska M;

XX WPI; 2000-532905/48.

XX Novel isolated nucleic acid encoding an OLD-35 or OLD-64 protein useful
PT in the treatment and detection of e.g. cancer and diseases involving
PT cellular senescence -

XX Disclosure; Fig 7; 115pp; English.

XX The specification describes Old-35, Old-64, Old-137, Old-139, Old-142
CC and Old-175 proteins. The Old nucleic acids are useful for reversing
CC the cancerous phenotype of a cancer cell, determining if a cell is
CC senescent, growth arrested or terminally differentiated. They are also
CC useful for reversing the aging process in a cell and degrading specific
CC RNAs in a cell. The genes may also be used as a diagnostic indicator of
CC cellular senescence, terminal differentiation and/or growth suppression
CC and as a marker to identify drugs or small molecules that will induce
CC or inhibit cellular senescence or terminal differentiation and type I
CC interferons. The combination of Old-35 with other interacting proteins
CC is useful for targeting the differentiation of specific cells. Old-35
CC can be used to selectively stabilize specific mRNAs containing adenoviral
CC rich 3' UTRs. The Old proteins are useful for reversing the cancerous
CC phenotype of a cancer cell and inhibiting the growth of a cancer cell.
CC They are also useful for regenerating tissue. The present sequence
CC represents an AU rich region from the 3' untranslated region (UTR)
CC of human granulocyte-monocyte colony stimulating factor (GM-CSF).

XX Sequence 47 BP; 18 A; 0 C; 0 G; 29 U; 0 other;

XX Query Match 0.9%; Score 22; DB 21; Length 47;

XX Best Local Similarity 23.7%; Pred. No. 5.6e+04; Mismatches 10; Indels 0; Gaps 0;

XX Matches 9; Conservative 19; Mismatches 10; Indels 0; Gaps 0;

XX 2115 TTTATATATATATATATTTTCAATAGATTTTGATT 2152

XX 4 UAUUUAUUUAUUUAUUUAUUUAUUUAUUUAUUUU 41

RESULT 60
AAF29302

ID AAF29302 standard; DNA; 48 BP.

XX AAF29302;

XX 18-APR-2001 (first entry)

XX Primer base sequence used to illustrate primer selection method.

XX Primer; optimum sequence; differential display; ss.

XX Synthetic.

XX JP2000308487-A.

XX 07-NOV-2000.

XX 30-MAR-1999; 99JP-0088410.

XX 30-MAR-1999; 99JP-0088410.

XX (KAGAKU) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX WPI; 2001-046077/06.

XX Selection of primer base for optimizing primer selection comprises
PT obtaining an optimum sequence for differential display from an
PT expression gene data base -

XX Disclosure; Fig 9; 13pp; Japanese.

XX This invention relates to a method for selecting the sequence of a
CC primer. The method comprises obtaining an optimum sequence for
CC differential display from an expression gene data base, and using the
CC base sequences most frequently expressed as the primer candidates in the
CC order of frequency. The optimum primer group characterized by the use of
CC genetic algorithm from the primer candidates is selected. The method is
CC used for selecting a primer sequence quickly. The present sequence
CC represents a primer used in an illustration of the method of the
CC invention.

XX Sequence 48 BP; 19 A; 3 C; 3 G; 23 T; 0 other;

XX Query Match 0.9%; Score 22; DB 22; Length 48;

XX Best Local Similarity 73.7%; Pred. No. 5.6e+04; Mismatches 10; Indels 0; Gaps 0;

XX Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

XX 2102 CCTGATCTTTTATATATATATATATATATATTTTCAA 2139

XX 10 CTGAGAGATTTTATATATATATATATATATTTTCAA 47

RESULT 61

XX ABL00059/C

XX ID ABL00059 standard; DNA; 50 BP.

XX ABL00059;

XX 05-MAR-2002 (first entry)

XX Human silent noncoding SNP oligonucleotide SEQ ID NO:50.

XX Human; single nucleotide polymorphism; SNP; polymorphism; cytostatic;
KM immunosuppressive; antiinflammatory; neuroprotective; anticarcinoma;
KM autoimmune disease; inflammation; cancer; nervous system disease;
KM infection; polymorphic protein; ds.

XX Homo sapiens.

XX WO200138586-A2.

XX 31-MAY-2001.

XX 22-NOV-2000; 2000WO-US32311.

```

PR 24-NOV-1999;      99US-0167383.
XX XX
XX FA (CURA-) CURAGEN CORP.
XX XX
XX PI Shinkets RA, Leach M;
XX DR WPI; 2001-355949/37.
XX XX
PT Isolated human nucleic acids comprising one or more single nucleotide
PT polymorphisms, useful for treating a subject suffering from a
PT pathology, e.g., autoimmune diseases, ascribed to the presence of a
PT sequence polymorphism -
XX XX
PS Claim 1; Page 260; 674pp; English.
XX XX
CC ABL00010 to ABL01104 represent human nucleic acid oligonucleotides
CC comprising one or more single nucleotide polymorphisms (SNPs). ABB56531
CC to ABB56993 represent human peptides encoded by some of the SNP
CC oligonucleotides. The sequences from the present invention can have
CC immunosuppressive, cytostatic, antiinflammatory, neuroprotective and
CC antimicrobial activities. Nucleic acids, polypeptides, oligonucleotides
CC and antibodies from the present invention can be used for treating a
CC subject suffering from at risk for, or suspected of, suffering from a
CC pathology ascribed to the presence of a sequence polymorphism. The
CC pathology may be autoimmune diseases, inflammation, cancer, diseases of
CC the nervous system, and infection by pathogenic microorganisms. The SNPs
CC are also useful for determining which forms of a characterised
CC polymorphism are present in individuals. The antibodies may be used in
CC the detection, quantitation and/or cellular or tissue localisation of a
CC polymorphic protein (e.g., for use in measuring levels of the
CC polymorphic protein within appropriate physiological samples).
XX XX
SQ Sequence 50 BP; 16 A; 4 C; 8 G; 22 T; 0 other;
XX XX
Query March 0.9%; Score 22; DB 23; Length 50;
Best Local Similarity 67.4%; Pred. No. 5.7e+04;
Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
OY 2096 AACACAGCCGATCTTTTATTATTAATATAATATTTTCAAATA 2141
Db 48 AAACAATCTTTTACACACTTTGGAAAAAATAGTATTTTCAATA 3
RESULT 62
ID AAL30100/c
XX AAL30100 standard; DNA; 51 BP.
XX AC AAL30100;
XX DT 24-JAN-2002 (first entry)
XX DE Human SNP oligonucleotide #3308.
XX XX
KW Immunosuppressive; immunostimulatory; antiinflammatory; cytosstatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cyclochrome; kinase; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX OS Homo sapiens.
XX MN WO200147944-A2.
XX EN
XX PD 05-JUL-2001.
XX PF 28-DEC-2000; 2000WO-US35498.
XX XX
XX 28-DEC-1999; 99US-0173419.
XX 27-DEC-2000; 2000US-0173419.
XX PR
```

XX (CURA-) CURAGEN CORP.
 XX PA
 XX P1 Shinketsu RA, Leach M;
 XX WPI; 2001-465210/50.
 DR
 XX
 PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 XX
 PS Claim 1; Page 2335; 4143pp; English.
 XX
 CC The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiotensin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cyclochromes, kinases, cytokines, interferons, interleukins,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.
 CC
 XX
 SQ Sequence 51 BP; 10 A; 0 C; 4 G; 37 T; 0 other;
 Query Match 0.9%; Score 22; DB 22; Length 51;
 Best Local Similarity 67.4%; Pred. No. 5.8e+04;
 Matches 31, Conservative 0; Mismatches 15; Indels 0; Gaps 0;
 Oy 1757 TTTAAAAATCATATCATATGTCGCAAAAAAACTTAAGCAAAATA 1802
 Db 46 TTTAAAAATCATATCATATTCAGAAAAAAATTTTTTTTTTTTTTTTTTTT 1
 RESULT 63
 AAL31018/c
 ID AAL31018 standard; DNA; 51 BP.
 XX
 AC AAL31018;
 XX
 DT 24-JAN-2002 (first entry)
 XX
 DE Human SNP oligonucleotide #4226.
 XX
 KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
 KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
 KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
 KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
 KW complement related protein; cyclochrome; cytokine; interferon;
 KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
 KW multifactorial disease; autoimmune disease; infection;
 KW nervous system disease; sr.
 KW
 OS Homo sapiens.
 XX
 PN WO200147944-A2.
 XX
 PD 05-JUL-2001.
 XX
 PF 28-DEC-2000; 2000WO-US35498.
 XX
 PR 28-DEC-1999; 99US-0173419.
 XX
 PR 27-DEC-2000; 2000US-0173419.
 XX
 PA (CURA-) CURAGEN CORP.
 XX

PI Shimkets RA, Leach M;
 XX WPI; 2001-465210/50.
 DR
 XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 PS Claim 1; Page 2600; 4143pp; English.
 XX
 CC The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiotensin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytokines, colony stimulating factors, interferons, interleukins,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.
 CC
 SQ Sequence 51 BP; 5 A; 6 C; 2 G; 38 T; 0 other;
 XX
 Query Match 0.9%; Score 22; DB 22; Length 51;
 Best Local Similarity 67.4%; Pred. No. 5.8e+04;
 Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
 QY 1743 AAATTAAGTGGATTTTAAATCAATCAATGCGCAAAAAATA 1788
 Db 49 AAATTAAGTGGCTGGAAAAAGAAAAAAGAAAAA 4
 RESULT 64
 AAL31438/C
 ID AAL31438 standard; DNA; 51 BP.
 XX
 AC AAL31438;
 XX
 DT 24-JAN-2002 (first entry)
 XX
 DE Human SNP oligonucleotide #4646.
 XX
 KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
 KW neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;
 KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
 KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
 KW complement related protein; cytokine; interferon; interleukin;
 KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
 KW multifactorial disease; autoimmune disease; infection;
 KW nervous system disease; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200147944-A2.
 XX
 PD 05-JUL-2001.
 XX
 PF 28-DEC-2000; 2000WO-US35498.
 XX
 XX 28-DEC-1999; .99US-0173419.
 PR 27-DEC-2000; 2000US-0173419.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkets RA, Leach M;
 XX
 DR WPI; 2001-465210/50.

XX
 PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 PS Claim 1; Page 2722; 4143pp; English.
 XX
 CC The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiotensin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytokines, colony stimulating factors, interferons, interleukin,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.
 CC
 SQ Sequence 51 BP; 10 A; 4 C; 2 G; 35 T; 0 other;
 XX
 Query Match 0.9%; Score 22; DB 22; Length 51;
 Best Local Similarity 67.4%; Pred. No. 5.8e+04;
 Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
 QY 1757 TTTAAAAATCAATCAATGTCGCAAAAAAATTAAGCAAAATA 1802
 Db 49 TTTAAATTAACAAATTCAGTGAAGAAAAAAGAAAAA 4
 RESULT 65
 AAH26598
 ID AAH26598 standard; mRNA; 51 BP.
 XX
 AC AAH26598;
 XX
 DT 12-NOV-2001 (first entry)
 XX
 DE Human GM-CSF gene 3' UTR AU-rich element.
 XX
 KW Granulocyte-macrophage colony stimulating factor; GM-CSF;
 KW human; AU-rich element; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT misc_feature 5..9
 FT /tag= a
 FT /note= "AUUUA motif"
 FT 9..13
 FT /tag= b
 FT /note= "AUUUA motif"
 FT 13..17
 FT /tag= c
 FT /note= "AUUUA motif"
 FT 30..34
 FT /tag= d
 FT /note= "AUUUA motif"
 FT 34..38
 FT /tag= e
 FT /note= "AUUUA motif"
 FT 38..42
 FT /tag= f
 FT /note= "AUUUA motif"
 FT 42..46
 FT /tag= g
 FT /note= "AUUUA motif"
 FT 46..50
 FT misc_feature

FT		/tag= h
PT		/note= "AUVU motif"
XX		
PN	WO200164921-A1.	
XX		
PD	07-SEP-2001.	
XX		
Pf	28-FEB-2001; 2001WO-US06782.	
XX		
PR	29-FEB-2000; 2000US--0515369.	
PA	(UYCO) UNIV COLUMBIA NEW YORK.	
XX		
PI	Fisher PB, Madireddi MT;	
DR	WPI; 2001-565508/63.	
XX		
PT	Melanoma differentiation associated gene-7 promoter capable of treating cancer comprises directing transcription of heterologous coding sequence encoding tumour suppressor polypeptide positioned downstream, useful for treating cancer -	
XX		
PS	Disclosure; Fig 2C; 132pp; English.	
CC	The present sequence is that of an AU-rich sequence in the 3'	
CC	untranslated region (3'UTR) of human granulocyte-macrophage colony stimulating factor mRNA. The presence of AU-rich elements (AREs) in eukaryotic mRNAs correlates with rapid mRNA turnover and post-translational control. The ARE consists of multiple AUVU motifs or sequences resembling it. A similar ARE sequence is found in the 3' UTR of the human melanoma differentiation associated gene-7 (Mda-7) gene (see AAH26596). The invention provides recombinant expression constructs in which the human Mda-7 promoter (see AAH26595) is operably linked to a coding sequence encoding a tumour suppressor protein. A pharmaceutical composition including CC the recombinant expression construct is used in a claimed method of treating melanoma, neuroblastoma, astrocytoma, glioblastoma CC multiforme, cervical cancer, breast cancer, colon cancer, prostate cancer, osteosarcoma, chondrosarcoma or a cancer of the central nervous system.	
CC		
SQ	Sequence 51 BP; 19 A; 0 C; 0 G; 32 U; 0 other;	
Query Match	0.9%; Score 22; DB 22; Length 51;	
Best Local Similarity	23.7%; Pred. No. 5.8e+04;	
Matches	9; Conservative 19; Mismatches 10; Indels 0; Gaps 0;	
OY	2115 TTTATATAATTAAATTAATTTTTCAATAGCTTTCATT 2152 ::: :: :: :: :: :: :: :: :: :: :	
Dn	4 UAUUUAUAUUUAUUUAUUUAUUUAUUUAUUUAUUU 41	
RESULT 66		
AAAS19341/C		
ID	AAIS19341 standard; DNA; 58 BP.	
XX		
AC	AAIS19341;	
XX		
DT	20-MAR-2002 (first entry)	
XX		
DE	Oligonucleotide 5982 used to construct plasmid XL2725.	
XX		
KW	BS; DNA purification; triple helix; plasmid purification;	
KM	oligonucleotide 5982; XL2725.	
XX		
OS	Synthetic.	
XX		
PH	Key Location/Qualifiers	
FT	repeat_region 5..55	
FT	/tag= a	
FT	/rpe_type= "TANDEM"	
FT	repeat_unit 5..7	
FT	/tag= b	

```

FT      /note= "CCT repeat type"
XX
XX PN    WO200192511-A2.
XX PD    06-DEC-2001.
XX PF    25-MAY-2001; 2001WO-US17122.
XX PR    26-MAY-2000; 2000US-0580923.
XX PA    (AVET ) AVENTIS PHARMA SA.
XX PI    Crouzet J, Scherman D, Wils P, Blanche F, Cameron B;
XX PT    WPI; 2002-097772/13.
XX
XX PT    Purifying double-stranded (ds) DNA from a solution containing dsDNA and
XX other components, comprises passing the solution through a support
XX comprising a covalently coupled oligonucleotide able to form a triple
XX helix with the dsDNA -
XX
XX PS     Example 7.1; Page 20; 40pp; English.
XX
XX CC    This invention comprises a method of purifying double-stranded DNA from
XX a solution containing the double-stranded DNA mixed with other
XX components, comprising passing the solution through a support comprising
XX a covalently coupled oligonucleotide capable of forming a triple helix
XX with the double-stranded DNA by hybridisation with a specific sequence
XX present in the double-stranded DNA. The method is useful for purifying
XX double-stranded DNA contained in a solution and mixed with other
XX components. The new method is a simple, rapid and effective method for
XX DNA purification, and makes it possible to obtain especially "high
XX purities with high yields". The method enables DNA to be purified from
XX complex mixtures comprising other nucleic acids, proteins, endotoxins,
XX nucleases and the like. The supports may be readily recycled, and the
XX DNAs obtained display improved properties to pharmaceutical safety.
XX Further, the method entails only one step contrary to prior art.
XX CC    The present sequence represents an oligonucleotide 582 used to
XX create the Xk275 plasmid which was used in an example of the DNA
XX purification method of the invention.
XX SQ
SQ      Sequence 58 BP; 2 A; 36 C; 1 G; 19 T; 0 other;
Query Match          0.9%; Score 22; DB 24; Length 58;
Best Local Similarity 63.0%; Pred. 6.2e+04;
Matches   34; Conservative   0; Mismatches 20; Indels   0; Gaps   0;
Cy       123 GGACGCGCCAGAGGACGGCGGTCTGAGAGAGAGTGAGGAGGGGGTCAATT 176
           ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db        54 GGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAATTT 1
                                           ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
RESULT 67
AAV04153 standard; DNA; 60 BP.
XX AC    AAV04153;
XX DT    22-JUN-1998 (first entry)
XX DE    Blood group antigen binding (Bab) adhesin DNA fragment.
XX KW    Blood group antigen binding adhesin; Baba; Babb; infection;
XX gastritis; acid peptic disease; therapy; diagnosis; vaccine;
XX immunisation; ss.
XX OS    Helicobacter pylori.
XX PN    WO9747646-A1.
XX PD    18-DEC-1997.
XX PF    10-JUN-1997; 97WO-SB01009.

```

XX 19-MAR-1997; 97SE-0001014.
PR 10-JUN-1996; 96SE-0002287.
XX (BORE/) BOREN T.
XX Arngvist A, Boren T, Hammarstrom L, Ilver D, Normark S;
PI Marstrom L;
XX WPI; 1998-052240/05.
DR Helicobacter pylori blood group antigen binding adhesin protein -
XX that binds fucosylated blood group antigen, useful to diagnose,
PT prevent and treat H. pylori infection
XX
XX Claim 11; Page 26; 53pp; English.
PS This DNA fragment comprises a 5' fragment of DNA coding for novel
CC Helicobacter pylori blood group antigen binding (Bab) adhesin
CC proteins that bind specifically to fucosylated blood group
CC antigens. Examples include the claimed babA (see AAV04154) and
CC babB (see AAV04155) genes of H. pylori strain CTG 17875. The bab
CC adhesins (see also AAW1522 and AAW1523) and DNA can be used in the
CC diagnosis, treatment and/or prophylaxis of H. pylori induced
CC infections such as gastritis and acid peptic disease, e.g. by
CC active immunisation. The genes can also be used in the recombinant
CC production of Bab adhesin polypeptides.
XX
XX Sequence 60 BP; 19 A; 13 C; 16 G; 12 T; 0 other;
SQ
XX
XX Query Match 0.9%; Score 22; DB 19; Length 60;
Best Local Similarity 63.0%; Pred. No. 6.3e+04;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
OY 49 GAGCGCTTTTACCAAGCCCGACTTCGAGACAGGAGAGCTGAGACATGCA 102
Db 7 GACGCGCTTTTACCAAGCGTAGCTATCAATCGGTGAAGCCGCTCAATGTA 60
RESULT 68
AAH93339
ID AAH93339 standard; DNA; 60 BP.
XX
XX AAH93339;
AC
XX
XX 04-OCT-2001 (first entry)
DT
XX
XX Plasmodium falciparum MAL3PC polynucleotide SEQ ID NO 60.
DE
XX
XX Human; antisense-therapy; gene-therapy; diagnostic; forensic;
KM Gene mapping; de.
XX
XX Plasmodium falciparum.
OS
XX
XX WO200152616-A2.
PN
XX
XX 26-JUL-2001.
PD
XX
XX 22-DEC-2000; 2000WO-US35190.
PF
XX
XX 23-DEC-1999; 99US-0471275.
PR 21-JAN-2000; 2000US-048725.
PR 25-APR-2000; 2000US-0552317.
XX
XX (HYSE-) HYSEQ INC.
PA
XX
XX Tang YT, Liu C, Drmanac RT;
PI
XX
XX WPI; 2001-451890/48.
DR
XX
XX Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use -
XX

PS Example 4; Page 122; 135pp; English.
XX
XX The invention relates to an isolated human polynucleotide (AAH93398)
CC encoding a novel polypeptide (AAG64527) useful in antisense-therapy and
CC gene-therapy, in diagnostics, forensics, gene mapping and identification
CC of mutations responsible for genetic disorders and other traits.
CC Polynucleotide sequences with potential homology were also identified
CC (AAH93283-AAH93356).
XX
XX
SQ Sequence 60 BP; 31 A; 4 C; 1 G; 24 T; 0 other;
OY
Db 2096 AACACCTGATCTTTTATATATATATATATATATATATATATATATATATA 47
2 AACACATATGATATATATATATATATATATATATATATATATATATAATA 47
RESULT 69
ID AEN38032 standard; DNA; 60 BP.
XX
XX AEN38032;
AC
XX
XX 15-JUL-2002 (first entry)
DT
XX
XX Human spliced transcript detection oligonucleotide SEQ ID NO:10780.
DE
XX
XX Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200210449-A2.
PN
XX
XX 07-FEB-2002.
PD
XX
XX 20-JUL-2001; 2001WO-IB01903.
PF
XX
XX 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
PR
XX
XX (COMP-) COMPUGEN INC.
PA
XX
XX Shoshan A, Maeserman A, Mintz E, Mintz L, Faigler S;
PI
XX
XX WPI; 2002-257383/30.
DR
XX
XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -
XX
XX
XX Example 1; SEQ ID 10780; 47pp; English.
PS
XX
XX The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridizing selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological

CC condition; to detect developmental specific genes; and to detect RNA
 CC transcripts and splice variants of a transcriptome of a patient suffering
 CC from a particular disorder. ABN27253 to ABN59589 represent
 CC oligonucleotide sequences from rats, humans and mice, which are used in
 CC the exemplification of the present invention.
 CC N.B. The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 CC XX

SO Sequence 60 BP; 18 A; 14 C; 17 G; 11 T; 0 other;

Query Match 0.9%; Score 22; DB 24; Length 60;
 Best Local Similarity 63.0%; Pred. No. 6.3e+04;
 Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

OY 2032 ACTTTCCTCCGAAATGGAGAGCAAGAGCAAGAACTTCCATTGATG 2085
 Db 1 ACCTTGACAGCGACATGAGAACTAAGACAGAGTCTCTGCCCAAGTATG 54

RESULT 70
 AAT61581/c
 ID AAT61581 standard; DNA; 50 BP.
 AC AAT61581;
 XX
 XX 28-OCT-1997 (first entry)
 DT
 XX
 DE VH and scFv antibody library VH back-primer VH 3.5.
 XX
 XX Human; monoclonal antitumour antibody; peripheral blood lymphocyte;
 KM cancer; tumorigenesis; anticancer vaccine; PCR;
 KM polymerase chain reaction; ss.
 XX
 OS Synthetic.
 XX
 PN WO9702479-A2.
 PD 23-JAN-1997.
 XX
 PF 28-JUN-1996; 96MO-IB01032.
 XX
 PR 30-JUN-1995; 95US-0497647.
 XX
 PA (UYVA) UNIV YALE.
 PI Cai X, Garen A;
 XX
 DR WPI; 1997-109061/10.
 XX
 PT Prod. of human monoclonal anti-tumour antibodies - by screening a
 PT fusion phage library produced using peripheral blood lymphocytes
 PT from a cancer patient
 XX
 PS Example 3; Page 39; 82pp; English.
 XX
 CC A process for isolating and synthesising human monoclonal anti-tumour
 CC antibodies has been produced. The process involves: (a) constructing at
 CC least one fusion phage library from the peripheral blood lymphocytes
 CC (PBLs) of a cancer patient; (b) screening for anti-tumour antibodies in
 CC the phage library in a binding assay with cultured tumour cells of the
 CC same type as the patient's tumour; (c) removing extraneous antibodies by
 CC absorption against normal human cells; (d) cloning the phage selected in
 CC step (b) and (c); (e) assaying the specificity of the cloned phage by
 CC incubating the phage with at least two types of cultured normal cells;
 CC and (f) further testing the specificity of cloned phage that do not bind
 CC to either cell line of cultured normal cells in further binding assays
 CC to cultured tumour cells derived from more than one other tumour that is
 CC not the patient's tumour. The present sequence represents a VH back-
 CC primer involved in the construction of VH and scFv libraries. The
 CC antibodies produced can be used for diagnostic and therapeutic
 CC applications and for isolating tumour antigens for studying
 CC tumorigenesis or for use as anti-cancer vaccines. The human antibodies

CC have low immunogenicity in humans compared to murine monoclonal
 CC antibodies (Mabs). Since the antibodies are isolated from fusion phage
 CC libraries, their affinity and specificity for a tumour cell line can be
 CC improved by genetic manipulations.
 CC XX

SO Sequence 50 BP; 6 A; 11 C; 20 G; 10 T; 3 other;

Query Match 0.9%; Score 21.8; DB 18; Length 50;
 Best Local Similarity 67.4%; Pred. No. 6.5e+04;
 Matches 29; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

OY 1501 GCATCGCACCCTTCCATATGACAGCCGAACTCTGGCCAT 1543
 Db 43 SCAMCAGCTGACCTCGCCAGCGCCGCAACCTGAGCCAT 1

RESULT 71
 AAT1565/c
 ID AAT1565 standard; DNA; 50 BP.
 AC AAT1565;
 XX
 XX 28-OCT-1997 (first entry)
 DT
 XX
 DE scFv antibody library VH back-primer VH 3.5.
 XX
 XX Human; monoclonal antitumour antibody; peripheral blood lymphocyte;
 KM cancer; tumorigenesis; anticancer vaccine; PCR;
 KM polymerase chain reaction; ss.
 XX
 OS Synthetic.
 XX
 PN WO9702479-A2.
 PD 23-JAN-1997.
 XX
 PF 28-JUN-1996; 96MO-IB01032.
 XX
 PR 30-JUN-1995; 95US-0497647.
 XX
 PA (UYVA) UNIV YALE.
 PI Cai X, Garen A;
 XX
 DR WPI; 1997-109061/10.
 XX
 PT Prod. of human monoclonal anti-tumour antibodies - by screening a
 PT fusion phage library produced using peripheral blood lymphocytes
 PT from a cancer patient
 XX
 PS Example 1; Page 14; 82pp; English.
 XX
 CC A process for isolating and synthesising human monoclonal anti-tumour
 CC antibodies has been produced. The process involves: (a) constructing at
 CC least one fusion phage library from the peripheral blood lymphocytes
 CC (PBLs) of a cancer patient; (b) screening for anti-tumour antibodies in
 CC the phage library in a binding assay with cultured tumour cells of the
 CC same type as the patient's tumour; (c) removing extraneous antibodies by
 CC absorption against normal human cells; (d) cloning the phage selected in
 CC step (b) and (c); (e) assaying the specificity of the cloned phage by
 CC incubating the phage with at least two types of cultured normal cells;
 CC and (f) further testing the specificity of cloned phage that do not bind
 CC to either cell line of cultured normal cells in further binding assays
 CC to cultured tumour cells derived from more than one other tumour that is
 CC not the patient's tumour. The present sequence represents a VH back-
 CC primer involved in the construction of scFv libraries. The
 CC antibodies produced can be used for diagnostic and therapeutic
 CC applications and for isolating tumour antigens for studying
 CC tumorigenesis or for use as anti-cancer vaccines. The human antibodies
 CC have low immunogenicity in humans compared to murine monoclonal
 CC antibodies (Mabs). Since the antibodies are isolated from fusion phage
 CC libraries, their affinity and specificity for a tumour cell line can be
 CC improved by genetic manipulations.

XX	Sequence	50 BP; 6 A; 11 C; 20 G; 10 T; 3 other;	XX
QQ	Query Match	0.9%; Score 21.8; DB 18; Length 50;	
BB	Best Local Similarity	67.4%; Pred. No. 6.5e+04;	
MM	Matches	29; Conservative 1; Mismatches 13; Indels 0; Gaps 0	
OY	1501	GCATGGGCACCACTTCCATATACAGACCCGAATCTGGGCCAT 1543	
DB	43	SCAMCAGCTGCACCTCGGCCACGTCGGCCGAACTTGAGCCAT 1	
	RESULT 72		
ID	AL28954		
XX	AL28954 standard; DNA; 51 BP.		
AC	AA28954;		
DT	24-JAN-2002 (first entry)		
XX	Human SNP oligonucleotide #2162.		
DE	Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;		
KW	neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;		
KW	amyloid protein; angiotensin; apoptosis related protein; cadherin;		
KW	cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;		
KW	complement related protein; cytochrome; kinesin; cytokine; interferon;		
KW	interleukin; G-protein coupled receptor; thioesterase; inflammation;		
KW	multifactorial disease; autoimmune disease; infection;		
KW	nervous system disease; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200147944-A2.		
XX			
PD	05-JUL-2001.		
XX			
PF	28-DEC-2000; 2000WO-US35498.		
XX			
PR	28-DEC-1999; 99US-0173419.		
XX			
PR	27-DEC-2000; 2000US-0173419.		
XX			
PA	(CURA-) CURAGEN CORP.		
XX			
PI	Shimkets RA, Leach M;		
XX			
DR	WPI; 2001-465210/50.		
XX			
PT	Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,		
PT	oncogenes and histones, useful for diagnosing and treating, e.g.		
PT	cancer, autoimmune diseases and infections -		
XX			
PS	Claim 1; Page 2001; 4143pp; English.		
XX			
CC	The present invention relates to oligonucleotides encoding polymorphic		
CC	variants of proteins related to amylases, amyloid protein, angiotensin,		
CC	apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,		
CC	histones, kinases, colony stimulating factors, complement related		
CC	proteins, cytochromes, kinesins, cytokines, interferons, interleukins,		
CC	G-protein coupled receptors and thioesterases. The present sequence is		
CC	one such oligonucleotide. The oligonucleotides and the peptides encoded		
CC	by them may be used in the prevention, diagnosis and treatment of		
CC	diseases associated with inappropriate expression of the proteins listed		
CC	above. Disorders that may be prevented, diagnosed and/or treated include		
CC	multifactorial diseases with a genetic component, such as autoimmune		
CC	diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,		
CC	systemic lupus erythematosus and Grave's disease), inflammation, cancer		
CC	(e.g. cancers of the bladder, brain, breast, colon and kidney,		
CC	leukemia), diseases of the nervous system and an infection of pathogenic		
CC	organisms.		
XX			
SQ	Sequence 51 BP; 11 A; 2 C; 5 G; 33 T; 0 other;		

[illegible]

Db 10 TAGAAAAAAAAACAAAAAACCTCAAGGAAAAACA 50

RESULT 74

ID AAV76001

AAV76001 standard; DNA; 55 BP.

AC AAV76001;

AT 16-MAR-1999 (first entry)

DE Staphylococcus aureus contig SEQ ID #1690.

KM Computer readable medium; vaccine; S.aureus infection; immunodetection; cellulitis; eyelid infection; food poisoning; osteomyelitis; therapy; skin infection; surgical wound infection; scalded skin syndrome; toxic shock syndrome; ds.

OS Staphylococcus aureus.

XX EP786519-A2.

XX 30-JUL-1997.

PD 07-JAN-1997; 97EP-0100117.

PE 05-JAN-1996; 96US-0009861.

PR (HUMA-) HUMAN GENOME SCI INC.

PA Barash SC, Choi GH, Dillon PJ, Fannon MR, Kunesch CA; Rosen CA;

PI MPI; 1997-374922/35.

DR Polynucleotide(s) and proteins derived from Staphylococcus aureus stored on computer readable medium and used in the production of anti-S.aureus vaccines

XX

PT Claim 1; Page 2034; 3271pp; English.

PS

XX This sequence represents one of 5191 Staphylococcus aureus DNA sequences of the invention. The DNA sequences are recorded on a computer readable medium, preferably selected from a floppy or hard disk, random access memory (RAM), read-only memory (ROM) or CD-ROM. Homology searches using the S.aureus DNA sequences allows putative functions to be assigned so that protein-encoding or regulatory regions of commercial, therapeutic or industrial importance can be obtained. Specifically, sequences which are likely to encode antigens have been identified and these polypeptides can be used in a vaccine composition against S.aureus infection. The polypeptides can also be used in a kit for the immunodetection of S.aureus in a sample. S.aureus is implicated in numerous human diseases, including cellulitis, eyelid infections, food poisoning, osteomyelitis, skin and surgical wound infections, scalded skin syndrome, toxic shock syndrome, etc. Organisms transformed with the DNA sequences can be used for recombinant production of the polypeptides. The new DNA sequences (and their fragments) are useful as primers or probes for isolating homologues of any of the S.aureus DNA sequences contained on the computer readable medium.

CC

XX

XX Sequence 55 BP; 24 A; 9 C; 6 G; 16 T; 0 other;

XX

Query Match 0.9%; Score 21.8; DB 18; Length 55;

Best Local Similarity 70.7%; Pred. No. 6.8e+04;

Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0

0Y 2174 CCAACTTTAAATGCGAAATTAATTCGTTGGTGTGAAGAA 2214

Db 1 CCAACTTTAATAATGAAATGCTGTGTAATTAACAAGATA 41

RESULT 75

AAFS6143/c

ID	AF56143 standard; DNA; 60 BP.
XX	
AC	AAFS6143;
XX	
DT	17-APR-2001 (first entry)
XX	
DE	Staphylococcus aureus agr enhancer region #1.
XX	
KM	Staphylococcus aureus; Sara; staphylococcal accessory regulator A;
XX	agr; accessory gene regulator; antibacterial; Sara inhibitor;
KW	virulence gene; staphylococcal infection; ds.
XX	
OS	Staphylococcus aureus.
XX	
FN	WO200103686-A2.
XX	
PD	18-JAN-2001.
XX	
PF	07-JUL-2000; 2000WO-US18525.
XX	
PR	08-JUL-1999; 99US-0142793.
XX	
PA	(UYAR-) UNIV ARKANSAS.
XX	
PI	Hurlburt BK, Smeltzer MS, Rechin TM;
XX	
DR	WPI; 2001-112567/12.
XX	
PT	Identifying inhibitors of staphylococcal Sara (accessory regulator)
XX	which are useful for treating staphylococcal infections, comprises
PT	using specific binding sites of Sara protein on an accessory gene
PT	regulator locus -
XX	
PS	Example; Fig 2; 79pp; English.
XX	
CC	The present sequence is given in a specification relating to a method for
CC	identifying inhibitors of Sara (staphylococcal accessory regulator)
CC	function involved in the expression of Staphylococcal virulence genes.
CC	The method comprises contacting a candidate inhibitor with a Sara
CC	binding site of the agr (accessory gene regulator) locus in solution
CC	and assessing the binding of the candidate inhibitor to the Sara
CC	binding site of the agr locus. The identified inhibitors are useful for
CC	preventing and creating staphylococcal infections.
XX	
SQ	Sequence 60 BP; 17 A; 5 C; 4 G; 34 T; 0 other;
XX	
Query Match	0.9%; Score 21.8; DB 22; Length 60;
BABN35167	Similarity 61.4%; Pred. No. 7.1e+04;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;	
OY	1709 AATGTCATTAGTACGACCTCGACACAGGAATAAAGTGATTTTAAAAA 1765
DB	60 AATATTTAACGTAAAATAATTTCAGTTAGAAATAAAAACGACTGTTAGAAAA 4
RESULT 76	
AABN35167	
ID	AABN35167 standard; DNA; 60 BP.
XX	
AC	AABN35167;
XX	
DT	15-JUL-2002 (first entry)
XX	
DE	Human spliced transcript detection oligonucleotide SEQ ID NO:7915.
XX	
KM	Human; mouse; rat; splice transcript; detection; RNA transcript;
XX	splice variant; transcriptome; oligonucleotide library; ss.
XX	
OS	Homo sapiens.
XX	
FN	WO200210449-A2.
XX	
DD	07-FEB-2002.

```
XX PF 20-JUL-2001; 2001WO-IB01903.
XX PR 28-JUL-2000; 2000US-221607P.
XX PR 02-MAY-2001; 2001US-287724P.
XX PA (COMP-) COMPUGEN INC.
XX PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX WPI; 2002-257383/30.
XX DR
XX PT New oligonucleotide libraries comprising oligonucleotides which
XX PT selectively hybridize to mRNAs transcribed from a transcription unit of
XX PT a genome, useful for detecting tissue-, pathology-, and
XX PT developmental-specific genes
XX PS Example 1; SEQ ID 7915; 47bp; English.
XX CC The present invention describes oligonucleotide libraries for detecting
XX CC messenger RNAs that populate a (sub-)transcriptome, where the
XX CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX CC transcription units that populate a genome. The library comprises
XX CC several oligonucleotides, each capable of hybridizing selectively to a
XX CC set of messenger RNAs transcribed from a given transcription unit of
XX CC the genome, which encodes one or more messenger RNA splice variants.
XX CC The oligonucleotide libraries are useful for detecting mRNAs from a
XX CC biological sample, in expression profiling studies, in qualitatively or
XX CC quantitatively characterizing the corresponding transcriptome, and in
XX CC detecting RNA transcripts and splice variants of human or animal
XX CC transcriptomes. The libraries may also be used as specialised mini
XX CC libraries to detect transcripts of a sub-transcriptome under a
XX CC particular biological or pathological state, and so allowing the
XX CC detection of tissue- and pathology-specific genes such as those genes
XX CC only expressed in specific tissue under a specific pathological
XX CC condition; to detect developmental specific genes; and to detect RNA
XX CC transcripts and splice variants of a transcriptome of a patient suffering
XX CC from a particular disorder. ABN27253 to ABN59589 represent
XX CC oligonucleotide sequences from rats, humans and mice, which are used in
XX CC the exemplification of the present invention.
XX CC N.B. The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 60 BP; 24 A; 10 C; 18 G; 8 T; 0 other;
XX
XX Query Match 0.9%; Score 21.8; DB 24; Length 60;
XX Best Local Similarity 70.7%; Pred. No. 7.1e+04;
XX Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
XX
XX QY 974 TCACACAGAGAGCCAGAGATCTGCTTAAGCTGCTGAAA 1014
XX Db 5 TAACGAGGAGGACGAGAGAGGTATCAACAGCTACTGAAA 45
XX
XX RESULT 77
XX ABN43764/c
XX ID ABN43764 standard; DNA; 60 BP.
XX AC ABN43764;
XX XX
XX DT 15-JUL-2002 (first entry)
XX DE Human spliced transcript detection oligonucleotide SEQ ID NO:16512.
XX KW Human; mouse; rat; splice transcript; detection; RNA transcript;
XX KW splice variant; transcriptome; oligonucleotide library; ss.
XX OS Homo sapiens.
XX XX
XX PN WO200210449-A2.
XX XX
XX PD 07-FEB-2002.
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XX PF 20-JUL-2001; 2001WO-IB01903.
XX PR 28-JUL-2000; 2000US-221607P.
XX PR 02-MAY-2001; 2001US-287724P.
XX PA (COMP-) COMPUGEN INC.
XX PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX WPI; 2002-257383/30.
XX DR
XX PT New oligonucleotide libraries comprising oligonucleotides which
XX PT selectively hybridize to mRNAs transcribed from a transcription unit of
XX PT a genome, useful for detecting tissue-, pathology-, and
XX PT developmental-specific genes
XX PS Example 1; SEQ ID 16512; 47bp; English.
XX CC The present invention describes oligonucleotide libraries for detecting
XX CC messenger RNAs that populate a (sub-)transcriptome, where the
XX CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX CC transcription units that populate a genome. The library comprises
XX CC several oligonucleotides, each capable of hybridizing selectively to a
XX CC set of messenger RNAs transcribed from a given transcription unit of
XX CC the genome, which encodes one or more messenger RNA splice variants.
XX CC The oligonucleotide libraries are useful for detecting mRNAs from a
XX CC biological sample, in expression profiling studies, in qualitatively or
XX CC quantitatively characterizing the corresponding transcriptome, and in
XX CC detecting RNA transcripts and splice variants of human or animal
XX CC transcriptomes. The libraries may also be used as specialised mini
XX CC libraries to detect transcripts of a sub-transcriptome under a
XX CC particular biological or pathological state, and so allowing the
XX CC detection of tissue- and pathology-specific genes such as those genes
XX CC only expressed in specific tissue under a specific pathological
XX CC condition; to detect developmental specific genes; and to detect RNA
XX CC transcripts and splice variants of a transcriptome of a patient suffering
XX CC from a particular disorder. ABN27253 to ABN59589 represent
XX CC oligonucleotide sequences from rats, humans and mice, which are used in
XX CC the exemplification of the present invention.
XX CC N.B. The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 60 BP; 15 A; 13 C; 15 G; 17 T; 0 other;
XX
XX Query Match 0.9%; Score 21.8; DB 24; Length 60;
XX Best Local Similarity 61.4%; Pred. No. 7.1e+04;
XX Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
XX
XX QY 215 AACTTGCATGGAACATTGTGAGAAATTGAAATCTGAGAACTAGTGAACAG 271
XX Db 59 AATTGGCCAGGACGACAGTGTTCGACCTGTAATCTCAACATTTGAGACCAAG 3
XX
XX RESULT 78
XX ABN50818
XX ID ABN50818 standard; DNA; 60 BP.
XX AC ABN50818;
XX XX
XX DT 15-JUL-2002 (first entry)
XX DE Human spliced transcript detection oligonucleotide SEQ ID NO:23566.
XX KW Human; mouse; rat; splice transcript; detection; RNA transcript;
XX KW splice variant; transcriptome; oligonucleotide library; ss.
XX OS Homo sapiens.
XX XX
XX PN WO200210449-A2.
XX XX
XX PD 07-FEB-2002.
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XX 20-JUL-2001; 2001MO-IB01903.
PF
XX
XX 28-JUL-2000; 2000US-221607P.
PR
XX 02-MAY-2001; 2001US-287724P.
PR
XX
XX (COMP-) COMPUGEN INC.
XX
XX Shoshan A, Masserman A, Mintz E, Mintz L, Faigler S;
PI
XX WPI; 2002-257383/30.
DR
XX
XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -
XX
XX Example 1; SEQ ID 23566; 47bp; English.
PS
XX The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridizing selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.
CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN5589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 60 BP; 11 A; 12 C; 18 G; 19 T; 0 other;
XX
Query Match 0.9%; Score 21.8; DB 24; Length 60;
Best Local Similarity 65.3%; Pred. No. 7.1e+04;
Matches 32; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 1015 AGAATGCTCTCTCTGCTGGAGAGCTGCTGCTGGAGAGCTGAGAG 1063
DB 3 AGAAATGCTCTCTCTCTGAGGCGCTTCCTGAAACGGTGTGCGAG 51
XX
RESULT 79
ID AAL30101/c
AC AAL30101. standard; DNA; 51 BP.
XX
XX AAL30101;
AC
DT 24-JAN-2002 (first entry)
XX
XX Human SNP oligonucleotide #3309.
DE
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinesin; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX

XX Homo sapiens.
OS
XX
XX MO200147944-A2.
PN
XX
XX 05-JUL-2001.
PD
XX
XX 28-DEC-2000; 2000MO-US35498.
PF
XX
XX 28-DEC-1999; 99US-0173419.
PR
XX 27-DEC-2000; 2000US-0173419.
PR
XX
XX (CURA-) CURAGEN CORP.
PA
XX Shinkets RA, Leach M;
PI
XX WPI; 2001-465210/50.
DR
XX
XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PT cancer, autoimmune diseases and infections -
XX
XX Claim 1; Page 2335; 4143bp; English.
PS
XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
CC G-protein coupled receptors and thioesterases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukemia), diseases of the nervous system and an infection of pathogenic
CC organisms.
XX
SQ Sequence 51 BP; 10 A; 1 C; 4 G; 36 T; 0 other;
XX
Query Match 0.9%; Score 21.6; DB 22; Length 51;
Best Local Similarity 68.2%; Pred. No. 7.3e+04;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY 1757 TTTAAATCAATCAATGCTGCAAAAAAACTTAAGCAAAA 1800
DB 45 TTTAAAAAATCATATCATCAAAAAAAATTAAGCAAAA 2
XX
RESULT 80
ID AAL30786/c
AC AAL30786. standard; DNA; 51 BP.
XX
XX AAL30786;
AC
DT 24-JAN-2002 (first entry)
XX
XX Human SNP oligonucleotide #3994.
DE
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinesin; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
XX Homo sapiens.
OS

PN WO200147944-A2.
XX
XX 05-JUL-2001.
PD
XX
XX 28-DEC-2000; 2000WO-US35498.
PF
XX
XX 28-DEC-1999; 99US-0173419.
PR 27-DEC-2000; 2000US-0173419.
XX
XX (CURA-) CURAGEN CORP.
PA
XX
XX Shimkete RA, Leach M;
PI
DR WPI; 2001-465210/50.
XX
PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PT cancer, autoimmune diseases and infections -
XX
XX Claim 1; Page 2534; 4143pp; English.
XX
CC The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apolipoprotein related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cyclochromes, kinesins, cytokines, interferons, interleukins,
CC G-protein coupled receptors and thioesterases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney, cancer
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms.
XX
SQ Sequence 51 BP; 8 A; 2 C; 3 G; 38 T; 0 other;
XX
Query Match 0.9%; Score 21.6; DB 22; Length 51;
Best Local Similarity 68.2%; Pred. No. 7.3e+04;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 1759 TAAATAATCATCATGTCGCAAAAAAATTAAGCAATA 1802
Db 46 TTAACATTAACATTCCTTAATAAAAAAAAAAAAAA 3
XX
RESULT 81
AAI76504/c
ID AAI76504 standard; DNA; 51 BP.
XX
XX AAI76504;
AC
XX
DT 09-NOV-2001 (first entry)
XX
XX Human silent SNP containing nucleic acid SEQ:3445.
DE
XX
XX Human; single nucleotide polymorphism; SNP; genome; gene therapy;
KW protein therapy; vaccine; probe; diagnostic assay; detection;
KM quantitation; restorative therapy; polymorphic; ds.
XX
XX Homo sapiens.
OS
XX
XX WO200140521-A2.
PN
XX
XX 07-JUN-2001.
PD
XX
XX 30-NOV-2000; 2000WO-US32758.
PF
XX
XX 30-NOV-1999; 99US-0168138.
PR 29-NOV-2000; 2000US-0726173.
PR

XX
XX (CURA-) CURAGEN CORP.
PA
XX
XX Shimkete RA, Leach M;
PI
XX
XX WPI; 2001-356160/37.
DR
XX
XX Polymorphic nucleic acid sequences, useful in genetic testing and
PT therapy -
XX
XX Claim 1; Page 1105; 2653pp; English.
XX
XX AAI73060 to AAI79867 represent isolated human polymorphic polynucleotide
CC sequences (1), which contain single nucleotide polymorphisms (SNPs).
CC AAM53114 to AAM53329 represent peptide sequences related to human polymorphic
CC polynucleotide sequences. The sequences can be used in gene and protein
CC therapy, and in vaccine production. (1) and the polypeptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of polymorphic polypeptides.
CC For example, (1) may be used to treat disorders by rectifying mutations
CC or deletions in a patient's genome that affect the activity of
CC polypeptides by expressing inactive proteins or to supplement the
CC patients own production of polypeptide. Additionally, (1) and its
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acids
CC in samples, and therefore which patients may be in need of restorative
CC therapy. The polypeptides encoded by (1) may be used as antigens in the
CC production of antibodies specific for polymorphic polypeptides. The
CC antibodies may also be used to down regulate expression and activity.
CC The antibodies may also be used as diagnostic agents for detecting the
CC presence of polymorphic polypeptides in samples.
XX
SQ Sequence 51 BP; 13 A; 10 C; 5 G; 23 T; 0 other;
XX
Query Match 0.9%; Score 21.6; DB 22; Length 51;
Best Local Similarity 68.2%; Pred. No. 7.3e+04;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 1278 TGTACTGTAAGTGTGAAGAAAGTTTCTTTGAACCAAAA 1321
Db 45 TGTACTGTAAGTGTGAAGAAAGTTTCTTTGAAGAAAAA 2
XX
RESULT 82
AAI76505/c
ID AAI76505 standard; DNA; 51 BP.
XX
XX AAI76505;
AC
XX
DT 09-NOV-2001 (first entry)
XX
XX Human silent SNP containing nucleic acid SEQ:3446.
DE
XX
XX Human; single nucleotide polymorphism; SNP; genome; gene therapy;
KW protein therapy; vaccine; probe; diagnostic assay; detection;
KM quantitation; restorative therapy; polymorphic; ds.
XX
XX Homo sapiens.
OS
XX
XX WO200140521-A2.
PN
XX
XX 07-JUN-2001.
PD
XX
XX 30-NOV-2000; 2000WO-US32758.
PF
XX
XX 30-NOV-1999; 99US-0168138.
PR 29-NOV-2000; 2000US-0726173.
PR
XX
XX (CURA-) CURAGEN CORP.
PA
XX
XX Shimkete RA, Leach M;
PI
XX
XX WPI; 2001-356160/37.
DR

XX Polymorphic nucleic acid sequences, useful in genetic testing and
PT therapy -
XX
XX
PS Claim 1, Page 1105; 2653pp; English.
XX
CC AAT73060 to AAT79867 represent isolated human polymorphic polynucleotide
CC sequences (1), which contain single nucleotide polymorphisms (SNPs).
CC AAM53114 to AAM53329 represent peptides related to human polymorphic
CC polynucleotide sequences. The sequences can be used in gene and protein
CC therapy, and in vaccine production. (1) and the polypeptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of polymorphic polypeptides.
CC For example, (1) may be used to treat disorders by rectifying mutations
CC or deletions in a patient's genome that affect the activity of
CC polypeptides by expressing inactive proteins or to supplement the
CC patients own production of polypeptide. Additionally, (1) and its
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acids
CC in samples, and therefore which patients may be in need of restorative
CC therapy. The polypeptides encoded by (1) may be used as antigens in the
CC production of antibodies specific for polymorphic polypeptides. The
CC antibodies may also be used to down regulate expression and activity.
CC The antibodies may also be used as diagnostic agents for detecting the
CC presence of polymorphic polypeptides in samples.
CC
XX
SQ Sequence 51 BP; 12 A; 10 C; 6 G; 23 T; 0 other;
XX
Query Match 0.9%; Score 21.6; DB 22; Length 51;
Best Local Similarity 68.2%; Pred. No. 7.3e+04;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
XX
QY 1278 TGTACTGTAAGTGTGAAGAAAGTTTCCTTGAACCAAAA 1321
Db 45 TGTACTGTAAGTGTGAAGAAAGTTTCCTTGAAGCAAAA 2
XX
RESULT 83
AAT23964/c
ID AAT23964 standard; cDNA to mRNA; 54 BP.
XX
AC AAT23964;
XX
DT 27-AUG-1996 (first entry)
XX
DE Human gene signature HUMGS05918.
XX
KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;
KW human; cloning; mapping; non-biased library; diagnosis; detection;
KW cell typing; abnormal cell function; ss.
XX
OS Homo sapiens.
XX
PN WO9514772-A1.
XX
PD 01-JUN-1995.
XX
PF 11-NOV-1994; 94MO-JP01916.
XX
PR 12-NOV-1993; 93JP-0355504.
XX
PA (MATS/) MATSUBARA K.
PA (OKUB/) OKUBO K.
XX
PI Matsubara K, Okubo K;
XX
DR WPI; 1995-206931/27.
XX
PT Identifying gene signatures in 3'-directed human cDNA library - e.g.
PT for diagnosis of abnormal cell function, by preparing cDNA that
PT reflects relative abundance of corresp. mRNA in specific human
XX tissues
XX

PS Claim 1, Page 1497; 2245pp; Japanese.
XX
XX A single-stranded DNA (or its complementary strand or the corresp.
CC double-stranded DNA) which comprises one of the 7837 "GS" sequences
CC given in AAT19001-T26837 and which is able to hybridize to part of
CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
CC sequences were obtained from 3'-directed cDNA libraries prepared
CC from various human tissues; synthesis of cDNA was initiated from the
CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-
CC untranslated sequence is unique to a particular mRNA species, almost
CC all the 3'-oriented cDNAs hybridize with specific mRNAs. Each library
CC is constructed so as to reflect accurately the relative abundance of
CC different mRNAs in the particular tissue from which it was derived.
CC The appearance frequency of a given GS in a cDNA library can be
CC determined (esp. using primers and probes derived from the GS
CC sequences) as a means of diagnosing abnormal cell function or for
CC recognising different cell types.
XX
SQ Sequence 54 BP; 19 A; 6 C; 8 G; 21 T; 0 other;
XX
Query Match 0.9%; Score 21.6; DB 16; Length 54;
Best Local Similarity 63.5%; Pred. No. 7.5e+04;
Matches 33; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
XX
QY 2086 TTTTACGTGCAACCACTGAATCTTTTATATATATATATATTTTCA 2137
Db 54 TTTGAGAGACGACCAAAATCAACTTTATTTTATATAGTATATGGA 3
XX
RESULT 84
ABN36856
ID ABN36856 standard; DNA; 60 BP.
XX
AC ABN36856;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human spliced transcript detection oligonucleotide SEQ ID NO:9604.
XX
KW Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.
XX
OS Homo sapiens.
XX
PN WO200210449-A2.
XX
PD 07-FEB-2002.
XX
PF 20-JUL-2001; 2001WO-1B01903.
XX
PR 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
XX
PA (COMP-) COMPUGEN INC.
XX
PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX
DR WPI; 2002-257383/30.
XX
PT New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -
XX
XX Example 1, SEQ ID 9604; 47pp; English.
XX
XX The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the
CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises
CC several oligonucleotides, each capable of hybridising selectively to a
CC set of messenger RNAs transcribed from a given transcription unit of
CC the genome, which encodes one or more messenger RNA splice variants.

CC The oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcripts. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN59589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at http://wipo.int/pub/published_pct_sequences.

SQ Sequence 60 BP; 22 A; 12 C; 18 G; 8 T; 0 other;

Query Match 0.9%; Score 21.6; DB 24; Length 60;
Best Local Similarity 63.5%; Pred. No. 8e+04; Indels 0; Gaps 0;
Matches 33; Conservative 0; Mismatches 19;

Qy 245 AATCTCAGAACTAGTGTGAACAGAGCGCCAGAAAATCAGACCGAGATG 296
Db 1 AAACGAGAGAAACCATGATCCAGAGCGCGTGAAGATCAGAGCTACTG 52

RESULT 85
AAV69937
ID AAV69937 standard; DNA; 48 BP.

XX AAV69937;

XX 11-FEB-1999 (first entry)

XX Chlorella virus promoter consensus sequence cyp-6.

KM Promoter; Chlorella virus; structural gene; lac operon;
KM protein expression; ss.

XX Chlorella sp.

XX WO9842822-A1.

XX 01-OCT-1998.

XX 21-MAR-1998; 98WO-US05655.

XX 21-MAR-1997; 97US-0821559.

XX (BION-) BIONEERASKA INC.

XX xia y;

XX WPI; 1998-609893/51.

PT Promoter sequences derived from Chlorella virus - are useful for
PT heterologous protein production in plants

PS Example 6; Page 15; 46pp; English.

CC AAV69935-46 represent promoter consensus sequences. The specification
CC describes promoter sequences derived from Chlorella virus. These
CC promoter sequences direct transcription of a structural gene. A lac
CC operon can be linked operatively to the promoters. The promoters can
CC be used in constructs for promoting high level expression of proteins
CC e.g. heterologous proteins, in a host, especially plants such tobacco,
CC wheat.

XX Sequence 48 BP; 17 A; 7 C; 9 G; 15 T; 0 other;

Query Match 0.9%; Score 21.4; DB 19; Length 48;
Best Local Similarity 66.0%; Pred. No. 8e+04; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 16;

Qy 2233 CTTCCTGGGAATATTAATGCAATGATCATGTTACACA 2279
Db 2 CTATCGTGTGATATATTAATGCAATGATCATGTTACACA 48

RESULT 86

ID AAS21106 standard; DNA; 48 BP.

XX AAS21106;

XX 20-MAR-2002 (first entry)

XX (GGA)16 DNA purification oligonucleotide.

XX ss; DNA purification; triple helix; plasmid purification.

XX Synthetic.

XX Key Location/Qualifiers

FT repeat_region 1..48

FT /tag= a

FT /rpt_type= "TANDEM"

FT repeat_unit 1..3

FT /tag= b

FT /note= "GAA repeat type"

XX WO200192511-A2.

XX 06-DEC-2001.

XX 25-MAY-2001; 2001MO-US17122.

XX 26-MAY-2000; 2000US-0580923.

XX (AVET) AVENTIS PHARMA SA.

XX Crouzet J, Scherman D, Wils P, Blanche F, Cameron B;

XX WPI; 2002-097772/13.

XX Purifying double-stranded (ds) DNA from a solution containing dsDNA and

XX other components, comprising passing the solution through a support

XX comprising a covalently coupled oligonucleotide able to form a triple

XX helix with the dsDNA

XX Example 7; Page 20; 40pp; English.

CC This invention comprises a method of purifying double-stranded DNA from
CC a solution containing the double-stranded DNA mixed with other
CC components, comprising passing the solution through a support comprising
CC a covalently coupled oligonucleotide capable of forming a triple helix
CC with the double-stranded DNA by hybridisation with a specific sequence
CC present in the double-stranded DNA. The method is useful for purifying
CC double-stranded DNA contained in a solution and mixed with other
CC components. The new method is a simple, rapid and effective method for
CC DNA purification, and makes it possible to obtain especially high
CC purities with high yields. The method enables DNA to be purified from
CC complex mixtures comprising other nucleic acids, proteins, endotoxins,
CC nucleases and the like. The supports may be readily recycled, and the
CC DNAs obtained display improved properties to pharmaceutical safety.
CC Further, the method entails only one step contrary to prior art.
CC The present sequence represents a DNA sequence contained within the
CC plasmid pXL2725. This sequence is used for purification of this
CC plasmid using the method of the invention.

XX Sequence 48 BP; 16 A; 0 C; 32 G; 0 U; 0 other;

XX Query Match 0.9%; Score 21.4; DB 24; Length 48;

Best Local Similarity 66.0%; Pred. No. 8e+04;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 123 GGACCAGCAGAGACCGGCTCTGAGATGAGCTGGAGAGGCGGG 169
DB 1 GGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 47

RESULT 87

AAD24852 standard; DNA; 48 BP.

AC AAD24852;

DT 12-MAR-2002 (first entry)

DE Chlorella virus cyp-6 promoter DNA consensus.

KW Gene expression; heterologous enzyme; hormone; structural protein;

KM Escherichia coli cell; tobacco; wheat; ds.

XX Chlorella virus.

XX US6316224-B1.

XX 13-NOV-2001.

PF 21-SEP-1999; 99US-0400541.

PR 21-MAR-1997; 97US-0821559.

XX 21-MAR-1998; 98WO-US05655.

PA (BION-) BIONEERASKA INC.

PI Xia Y;

DR WPI; 2002-054589/07.

XX Chlorella virus promoters, useful for controlling expression of

PT hormones, enzymes and structural proteins in plant and Escherichia coli

XX cells -

XX Example 6; Column 9-10; 24pp; English.

XX The invention relates to isolated, inducible promoter sequences derived

CC from Chlorella viruses. The invention also relates to gene constructs

CC comprising a promoter sequence of the invention operably linked to a DNA

CC sequence of a structural gene. The promoter is used for controlling gene

CC expression in host cells. In particular, it is used for control expression

CC of genes encoding heterologous enzymes, hormones, structural proteins,

CC glucagon-like peptide 1, growth hormone releasing factor, parathyroid

CC hormone, carbonic anhydrase, beta-galactosidase, chloramphenicol acetyl

CC transferase or glutathione acetyltransferase in plants cells and

CC Escherichia coli cells. The promoters can also promote high levels of

CC expression in plants especially tobacco and wheat. The present sequence

CC is Chlorella virus cyp-6 promoter DNA consensus.

XX Sequence 48 BP; 17 A; 7 C; 9 G; 15 T; 0 other;

SO Query Match 0.9%; Score 21.4; DB 24; Length 48;

Best Local Similarity 66.0%; Pred. No. 8e+04;

Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 2233 CTCTCTTGGTGAATATAAATGCAATGATCATTTTAACACA 2279

DB 2 CTATATCGTTGATATGATAAATGCAATGATCATGCTGATCAACA 48

RESULT 88

AAL31468 standard; DNA; 51 BP.

AC AAL31468;

XX 24-JAN-2002 (first entry)

XX Human SNP oligonucleotide #4676.

DE Immunosuppressive; immunostimulatory; antiinflammatory; cyrostatic;

KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;

KW amyloid protein; angiotensin; apoptosis related protein; cadherin;

KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;

KW complement related protein; cytochrome; kinase; cytokine; interferon;

KW interleukin; G-protein coupled receptor; thioesterase; inflammation;

KW multifactorial disease; autoimmune disease; infection;

XX nervous system disease; ss.

XX Homo sapiens.

XX WO200147944-A2.

XX 05-JUL-2001.

XX 28-DEC-2000; 2000WO-US3498.

XX 28-DEC-1999; 99US-0173419.

XX 27-DEC-2000; 2000US-0173419.

XX (CURA-) CURAGEN CORP.

XX Shimkete RA, Leach M;

XX WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,

XX PT oncogenes and histone, useful for diagnosing and treating, e.g.

XX cancer, autoimmune diseases and infections -

XX Claim 1; Page 2731; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic

CC variants of proteins related to amylases, amyloid proteins, angiotensin,

CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,

CC histones, kinases, colony stimulating factors, complement related

CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,

CC G-protein coupled receptors and thioesterases. The present sequence is

CC by them may be used in the prevention, diagnosis and treatment of

CC diseases associated with inappropriate expression of the proteins listed

CC above. Disorders that may be prevented, diagnosed and/or treated include

CC multifactorial diseases with a genetic component, such as autoimmune

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,

CC systemic lupus erythematosus and Grave's disease), inflammation, cancer

CC (e.g. cancers of the bladder, brain, breast, colon and kidney,

CC leukemia), diseases of the nervous system and an infection of pathogenic

XX organisms.

SO Sequence 51 BP; 13 A; 6 C; 6 G; 26 T; 0 other;

Query Match 0.9%; Score 21.4; DB 22; Length 51;

Best Local Similarity 80.6%; Pred. No. 8.3e+04;

Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2100 AACCTGATCTTTTATATATAATATATA 2130

DB 4 AACCAAGATCTTTTATATATCTGTA 34

RESULT 89

AAI78865/C

AAI78865; standard; DNA; 51 BP.

AC AAI78865;

DT 09-NOV-2001 (first entry)

PS Claim 1; SEQ ID 15425; 71bp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from

CC mRNAs encoding secreted proteins. No ORF has yet been conclusively

CC identified within the present sequence. The 5' ESTs were prepared from

CC total human RNA or poly(A) RNA derived from 30 different tissues. EST

CC sequences usually correspond mainly to the 3' untranslated region (UTR)

CC of the mRNA because they are often obtained from oligo-dT primed cDNA

CC libraries. Such ESTs are not well suited for isolating cDNA sequences

CC derived from the 5' ends of mRNAs and even in those cases where longer

CC cDNA sequences have been obtained, the full 5' UTR is rarely included.

CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be

CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used

CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.

CC They are used to obtain upstream regulatory sequences and to design

CC expression and secretion vectors.

XX

SQ Sequence 59 BP; 22 A; 8 C; 8 G; 21 T; 0 other;

Query Match 0.9%; Score 21.4; DB 21; Length 59;

Best Local Similarity 66.0%; Pred. No. 8.9e+04;

Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 2090 AGCTGCAACACCTGAACTCTTTTATATATAATATATTTTC 2136

DB 10 ACATTGAAATGCAACGCTATTTTATATATAATATATATACGTCTC 56

RESULT 92

ABN32960/c

ID ABN32960 standard; DNA; 60 BP.

XX

AC ABN32960;

XX

DT 15-JUL-2002 (first entry)

XX

DE Human spliced transcript detection oligonucleotide SEQ ID NO:5708.

XX

KM Human; mouse; rat; splice transcript; detection; RNA transcript;

KW splice variant; transcriptome; oligonucleotide library; ss.

XX

OS Homo sapiens.

XX

PN MO200210449-A2.

XX

PD 07-FEB-2002.

XX

PF 20-JUL-2001; 2001WC-IB01903.

XX

PR 28-JUL-2000; 2000US-221607P.

PR 02-MAY-2001; 2001US-287724P.

XX

PA (COMP-) COMPUGEN INC.

XX

PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

PI WPI; 2002-257383/30.

XX

DR WPI; 2002-257383/30.

XX

PT New oligonucleotide libraries comprising oligonucleotides which

PT selectively hybridize to mRNAs transcribed from a transcription unit of

PT a genome, useful for detecting tissue-, pathology-, and

PT developmental-specific genes

XX

PS Example 1; SEQ ID 5708; 47bp; English.

XX

XX The present invention describes oligonucleotide libraries for detecting

CC messenger RNAs that populate a (sub-)transcriptome, where the

CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple

CC transcription units that populate a genome. The library comprises

CC several oligonucleotides, each capable of hybridising selectively to a

CC set of messenger RNAs transcribed from a given transcription unit of

CC the genome, which encodes one or more messenger RNA splice variants.

CC The oligonucleotide libraries are useful for detecting mRNAs from a

CC biological sample, in expression profiling studies, in qualitatively or

CC quantitatively characterising the corresponding transcriptome, and in

CC detecting RNA transcripts and splice variants of human or animal

CC transcriptomes. The libraries may also be used as specialised mini

CC libraries to detect transcripts of a sub-transcriptome under a

CC particular biological or pathological state, and so allowing the

CC detection of tissue- and pathology-specific genes such as those genes

CC only expressed in specific tissue under a specific pathological

CC condition; to detect developmental specific genes; and to detect RNA

CC transcripts and splice variants of a transcriptome of a patient suffering

CC from a particular disorder. ABN7253 to ABN5589 represent

CC oligonucleotide sequences from rats, humans and mice, which are used in

CC the exemplification of the present invention.

CC N.B. The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from WPI

CC at ftp.wpi.int/pub/published_pct_sequences.

XX

SQ Sequence 60 BP; 16 A; 11 C; 13 G; 20 T; 0 other;

Query Match 0.9%; Score 21.4; DB 24; Length 60;

Best Local Similarity 66.0%; Pred. No. 9e+04;

Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 2174 CCAAACTTTAAATGCGAAATATGTTGTTGTGAAGAACCCAGA 2220

DB 59 CCAAGTTTCATTATACATGCAATCGCTTGTGCAAGAACCCAGA 13

RESULT 93

ABN37046

ID ABN37046 standard; DNA; 60 BP.

XX

AC ABN37046;

XX

DT 15-JUL-2002 (first entry)

XX

DE Human spliced transcript detection oligonucleotide SEQ ID NO:9794.

XX

KM Human; mouse; rat; splice transcript; detection; RNA transcript;

KW splice variant; transcriptome; oligonucleotide library; ss.

XX

OS Homo sapiens.

XX

PN MO200210449-A2.

XX

PD 07-FEB-2002.

XX

PF 20-JUL-2001; 2001WC-IB01903.

XX

PR 28-JUL-2000; 2000US-221607P.

PR 02-MAY-2001; 2001US-287724P.

XX

PA (COMP-) COMPUGEN INC.

XX

PI Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

PI WPI; 2002-257383/30.

XX

DR WPI; 2002-257383/30.

XX

PT New oligonucleotide libraries comprising oligonucleotides which

PT selectively hybridize to mRNAs transcribed from a transcription unit of

PT a genome, useful for detecting tissue-, pathology-, and

PT developmental-specific genes

XX

PS Example 1; SEQ ID 9794; 47bp; English.

XX

XX The present invention describes oligonucleotide libraries for detecting

CC messenger RNAs that populate a (sub-)transcriptome, where the

CC (sub-)transcriptome comprises messenger RNAs transcribed from multiple

CC transcription units that populate a genome. The library comprises

CC several oligonucleotides, each capable of hybridising selectively to a

CC set of messenger RNAs transcribed from a given transcription unit of

CC the genome, which encodes one or more messenger RNA splice variants.

CC The oligonucleotide libraries are useful for detecting mRNAs from a

CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN59589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

SQ Sequence 60 BP; 16 A; 12 C; 14 G; 18 T; 0 other;

Query Match 0.9%; Score 21.4; DB 24; Length 60;
Best Local Similarity 71.8%; Pred. No. 9e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 1256 GTTTACATATGTCGCTCCATCTGACTTGAAGTGCA 1294
9 GTTAACTTCAGGCACTATGTGAAGTGA 47

Db 9 GTTAACTTCAGGCACTATGTGAAGTGA 47

RESULT 94
ABN37096/c
ID ABN37096 standard; DNA; 60 BP.

AC ABN37096;
XX
XX 15-JUL-2002 (first entry)

DE Human spliced transcript detection oligonucleotide SEQ ID NO:9844.
XX
XX Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.
XX
XX Homo sapiens.
OS
XX WO200210449-A2.
XX
XX 07-FEB-2002.
XX
XX 20-JUL-2001; 2001WO-IB01903.
XX
XX 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
XX
XX (COMP-) COMPUGEN INC.
XX
XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
PI WPI; 2002-257383/30.
XX
XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -
XX
XX Example 1; SEQ ID 9844; 47pp; English.

PS The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX transcription units that populate a genome. The library comprises
XX several oligonucleotides, each capable of hybridising selectively to a
XX set of messenger RNAs transcribed from a given transcription unit of
XX the genome, which encodes one or more messenger RNA splice variants.
XX The oligonucleotide libraries are useful for detecting mRNAs from a

CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterizing the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a
CC particular biological or pathological state, and so allowing the
CC detection of tissue- and pathology-specific genes such as those genes
CC only expressed in specific tissue under a specific pathological
CC condition; to detect developmental specific genes; and to detect RNA
CC transcripts and splice variants of a transcriptome of a patient suffering
CC from a particular disorder. ABN27253 to ABN59589 represent
CC oligonucleotide sequences from rats, humans and mice, which are used in
CC the exemplification of the present invention.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

SQ Sequence 60 BP; 15 A; 17 C; 13 G; 15 T; 0 other;

Query Match 0.9%; Score 21.4; DB 24; Length 60;
Best Local Similarity 66.0%; Pred. No. 9e+04;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

OY 1011 GAAAGAAATGCTCTCTCTGAGAGCTGCTCGGAGCGTG 1057
47 GAAAGAAATGCTCTCTCTGAGAGCTGCTCGGAGCGCAATG 1

Db 47 GAAAGAAATGCTCTCTCTGAGAGCTGCTCGGAGCGCAATG 1

RESULT 95
ABN50863/c
ID ABN50863 standard; DNA; 60 BP.

AC ABN50863;
XX
XX 15-JUL-2002 (first entry)

DE Human spliced transcript detection oligonucleotide SEQ ID NO:23611.
XX
XX Human; mouse; rat; splice transcript; detection; RNA transcript;
KM splice variant; transcriptome; oligonucleotide library; ss.
XX
XX Homo sapiens.
OS
XX WO200210449-A2.
XX
XX 07-FEB-2002.
XX
XX 20-JUL-2001; 2001WO-IB01903.
XX
XX 28-JUL-2000; 2000US-221607P.
PR 02-MAY-2001; 2001US-287724P.
XX
XX (COMP-) COMPUGEN INC.
XX
XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
PI WPI; 2002-257383/30.
XX
XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of
PT a genome, useful for detecting tissue-, pathology-, and
PT developmental-specific genes -
XX
XX Example 1; SEQ ID 23611; 47pp; English.

PS The present invention describes oligonucleotide libraries for detecting
XX messenger RNAs that populate a (sub-)transcriptome, where the
XX (sub-)transcriptome comprises messenger RNAs transcribed from multiple
XX transcription units that populate a genome. The library comprises
XX several oligonucleotides, each capable of hybridising selectively to a
XX set of messenger RNAs transcribed from a given transcription unit of
XX the genome, which encodes one or more messenger RNA splice variants.
XX The oligonucleotide libraries are useful for detecting mRNAs from a

CC biological sample, in expression profiling studies, in qualitatively or
 CC quantitatively characterizing the corresponding transcriptome, and in
 CC detecting RNA transcripts and splice variants of human or animal
 CC transcripts. The libraries may also be used as specialised mini
 CC libraries to detect transcripts of a sub-transcriptome under a
 CC particular biological or pathological state, and so allowing the
 CC detection of tissue- and pathology-specific genes such as those genes
 CC only expressed in specific tissue under a specific pathological
 CC condition; to detect developmental specific genes; and to detect RNA
 CC transcripts and splice variants of a transcriptome of a patient suffering
 CC from a particular disorder. ABN27253 to ABN59589 represent
 CC oligonucleotide sequences from rats, humans and mice, which are used in
 CC the exemplification of the present invention.
 CC N.B. The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 60 BP, 20 A, 15 C, 11 G, 14 T, 0 other;
 SQ

Query Match 0.9%; Score 21.4; DB 24; Length 60;
 Best Local Similarity 71.8%; Pred. No. 9e+04; Mismatches 0;
 Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 2191 AATTTATGTTGGTGTGAGAGAAAGCCAGACACTTCTG 2229
 |||||
 Db 39 AATGATGGGTCTATGAGAGATAGCCTGATAGCCTCTG 1

RESULT 96
 AAH44690/c
 ID AAH44690 standard; DNA; 41 BP.
 XX
 XX AAH44690;
 AC
 XX
 DT 07-DEC-2001 (first entry)
 XX
 XX Human type-I aminoacyl tRNA synthetase 10 probe 1 SEQ ID NO:8.
 DE
 XX
 XX Human; type-I aminoacyl tRNA synthetase 10; malignant tumour;
 KM haemopathy; human immunodeficiency virus; HIV infection;
 KM immunological disease; inflammation; probe; ss.
 XX
 XX Homo sapiens.
 OS
 XX
 XX CN1301715-A.
 PN
 XX
 XX 04-JUL-2001.
 PD
 XX
 XX 27-DEC-1999; 99CN-0125371.
 PF
 XX
 XX 27-DEC-1999; 99CN-0125371.
 PR
 XX
 XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.
 PA
 XX
 XX Mao Y, Xie Y;
 PI
 XX
 XX WPI; 2001-550469/62.
 DR
 XX
 XX New polypeptide-I-type aminoacyl-tRNA synthetase 10 and encoding
 PT polynucleotide useful for treating tumor, hemopathy, infection and
 PT immunological disease -
 XX
 XX Example 7; Page 20 (Disclosure); 32pp; Chinese.

CC The present invention describes the human type-I aminoacyl tRNA
 CC synthetase 10 protein. Also described are polynucleotides encoding the
 CC type-I aminoacyl tRNA synthetase 10 protein, and a DNA recombination
 CC process to produce the protein. The protein can be used for treating
 CC various diseases, such as malignant tumour, haemopathy, human
 CC immunodeficiency virus infection, immunological diseases and various
 CC inflammations. The present sequence represents a probe for type-I
 CC aminoacyl tRNA synthetase 10, which is used in an example from the
 CC present invention.

XX Sequence 41 BP, 3 A, 5 C, 3 G, 30 T, 0 other;
 SQ

Query Match 0.9%; Score 21.2; DB 22; Length 41;
 Best Local Similarity 76.5%; Pred. No. 8.4e+04;
 Matches 26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2045 AAAATGGAGGCGAAGACAAAGAACTTACCA 2078
 |||||
 Db 37 AAAAAGAAAAGAAAAGAAAAGAACTTACCA 4

RESULT 97
 AAF29312/c
 ID AAF29312 standard; DNA; 48 BP.
 XX
 XX AAF29312;
 AC
 XX
 DT 18-APR-2001 (first entry)
 XX
 XX Primer base sequence used to illustrate primer selection method.
 DE
 XX
 XX Primer; optimum sequence; differential display; ss.
 KM
 XX
 XX Synthetic.
 OS
 XX
 XX JP2000308487-A.
 PN
 XX
 XX 07-NOV-2000.
 PD
 XX
 XX 30-MAR-1999; 99JP-0088410.
 PF
 XX
 XX 30-MAR-1999; 99JP-0088410.
 PR
 XX
 XX (KAGAKU GIUTSU SHINKO JIGYODAN.
 PA
 XX
 XX WPI; 2001-046077/06.
 DR
 XX
 XX Selection of primer base for optimizing primer selection comprises
 PT obtaining an optimum sequence for differential display from an
 PT expression gene data base -
 XX
 XX Disclosure; Fig 9; 13pp; Japanese.

CC This invention relates to a method for selecting the sequence of a
 CC primer. The method comprises obtaining an optimum sequence for
 CC differential display from an expression gene data base, and using the
 CC base sequences most frequently expressed as the primer candidates in the
 CC order of frequency. The optimum primer group characterised by the use of
 CC genetic algorithm from the primer candidates is selected. The method is
 CC used for selecting a primer used in an illustration of the present sequence
 CC represents a primer used in an illustration of the method of the
 CC invention.

XX Sequence 48 BP, 18 A, 2 C, 5 G, 23 T, 0 other;
 SQ

Query Match 0.9%; Score 21.2; DB 22; Length 48;
 Best Local Similarity 69.0%; Pred. No. 9e+04;
 Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2097 AACACCTGAATCTTTTATATATAATATATTTTCAA 2138
 |||||
 Db 47 AAGAAATTGAATCTTCAATTTTAAAAAAAATTTCTTCAA 6

RESULT 98
 AA177361/c
 ID AA177361 standard; DNA; 50 BP.
 XX
 XX AA177361;
 AC
 XX
 DT 09-NOV-2001 (first entry)
 XX

DE Human silent SNP containing nucleic acid SEQ:4302.
 XX
 XX Human; single nucleotide polymorphism; SNP; genome; gene therapy;
 KM protein therapy; vaccine; probe; diagnostic assay; detection;
 KM quantitation; restorative therapy; polymorphic; ds.
 XX
 OS Homo sapiens.
 XX
 XX WO200140521-A2.
 XX
 XX 07-JUN-2001.
 XX
 XX 30-NOV-2000; 2000MO-US32758.
 XX
 XX 30-NOV-1999; 99US-0168138.
 XX 29-NOV-2000; 2000US-0726173.
 XX
 XX (CURA-) CURAGEN CORP.
 XX
 XX Shimkets RA, Leach M;
 PI WPI; 2001-356160/37.
 XX
 XX Polymorphic nucleic acid sequences, useful in genetic testing and
 PT therapy -
 PS Claim 1; Page 1827; 2653pp; English.
 XX
 XX AA173060 to AA179867 represent isolated human polymorphic polynucleotide
 CC sequences (1), which contain single nucleotide polymorphisms (SNPs).
 CC AA173060 to AA179867 represent peptides related to human polymorphic
 CC polynucleotide sequences. The sequences can be used in gene and protein
 CC therapy, and in vaccine production. (1) and the polypeptides encoded by
 CC them may be used in the prevention, diagnosis and treatment of diseases
 CC associated with inappropriate expression of polymorphic polypeptides.
 CC For example, (1) may be used to treat disorders by rectifying mutations
 CC or deletions in a patient's genome that affect the activity of
 CC polypeptides by expressing inactive proteins or to supplement the
 CC patient's own production of polypeptide. Additionally, (1) and its
 CC complementary sequences may also be used as DNA probes in diagnostic
 CC assays to detect and quantitate the presence of similar nucleic acids
 CC in samples, and therefore which patients may be in need of restorative
 CC therapy. The polypeptides encoded by (1) may be used as antigens in the
 CC production of antibodies specific for polymorphic polypeptides. The
 CC antibodies may also be used to down regulate expression and activity.
 CC The antibodies may also be used as diagnostic agents for detecting the
 CC presence of polymorphic polypeptides in samples.
 CC
 XX
 XX Sequence 50 BP; 12 A; 13 C; 7 G; 18 T; 0 other;
 SQ
 Query Match 0.9%; Score 21.2; DB 22; Length 50;
 Best Local Similarity 69.0%; Pred. No. 9.2e+04;
 Matches 22; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 QY 895 GCACCCCATTCACCTGCGGAGATGAAGAAACATTTGAC 936
 Db 46 GCATACCAATTACTGGGGGAAAAAAGTTAAGAGATGCC 5
 RESULT 99
 AAAT7364/c
 ID AAA77364 standard; cDNA; 51 BP.
 XX
 XX AAA77364;
 AC
 XX
 XX 16-NOV-2000 (first entry)
 DT
 XX
 XX Human clone cg44911913 polymorphic site, SEQ ID NO:1047.
 DE
 XX Human; single nucleotide polymorphism; SNP; chromosome 15;
 KM detection; identification; gene therapy; ss.
 KM
 XX Homo sapiens.
 OS

XX
 XX Key Location/Qualifiers
 FH variation replace (26,G)
 FT /*tag= a
 FT
 XX
 XX WO200029623-A2.
 XX
 XX 25-MAY-2000.
 XX
 XX 17-NOV-1999; 99MO-US27293.
 XX
 XX 17-NOV-1998; 98US-0109024.
 XX 16-NOV-1999; 99US-0109024.
 XX
 XX (CURA-) CURAGEN CORP.
 XX
 XX Shimkets RA, Leach MD;
 PI WPI; 2000-387826/33.
 XX
 XX Human nucleic acids containing single nucleotide polymorphisms, useful
 PT for treating a subject suffering, or at risk from a pathology due to
 PT the presence of a sequence polymorphism -
 PS Claim 1; Page 474; 543pp; English.
 XX
 XX Sequences AAAT76318-A77509 represent 1192 human nucleic acid sequences
 CC which contain single nucleotide polymorphisms (SNPs). Sequences 1 to
 CC 1112 (AAAT76318-A77429) are consecutive pairs of nucleotides which
 CC contain silent SNPs. Sequences 1113 to 1192 (AAAT7430-A77509) are
 CC consecutive pairs of nucleotides containing SNPs which result in changes
 CC in the corresponding amino acid sequences (AAAT7430-A77445). The SNPs in
 CC sequences 1113 to 1128 (AAAT7430-A77445) lead to conservative amino acid
 CC changes, while those in sequences 1129 to 1186 (AAAT7446-A77503) result
 CC in non-conservative changes. The SNPs in sequences 1187 to 1192
 CC (AAAT7504-A77509) generate frameshift mutations. The invention also
 CC relates to a method of detecting a polymorphic site in a nucleic acid and
 CC a method of determining the relatedness of two nucleic acids. It also
 CC encompasses peptides containing polymorphic sites, antibodies raised
 CC against such peptides, and a method of detecting polymorphic
 CC proteins/peptides using the antibodies. The nucleic acids are useful for
 CC gene therapy of an individual having, suspected of having, or at risk of
 CC developing a pathological condition due to the presence of a sequence
 CC polymorphism. Such treatment would comprise administration of the
 CC wild-type nucleic acid sequence. Antibodies raised against polymorphic
 CC peptides can also be used in the treatment of such individuals.
 CC
 XX
 XX Sequence 51 BP; 0 A; 30 C; 12 G; 9 T; 0 other;
 SQ
 Query Match 0.9%; Score 21.2; DB 21; Length 51;
 Best Local Similarity 64.0%; Pred. No. 9.3e+04;
 Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
 QY 114 CATGACCTGACCGACGACAGACCGCGGCTCTGAGAGTGAAGTGAAGC 163
 Db 51 CAGGAGCAGGCGCCAGAGCGGAGCGGCGCCAGAGGCGCGCGGG 2
 RESULT 100
 AAL31990/c
 ID AAL31990 standard; DNA; 51 BP.
 XX
 XX AAL31990;
 AC
 XX
 XX 24-JAN-2002 (first entry)
 DT
 XX
 XX Human SNP oligonucleotide #5198.
 DE
 XX Immunosuppressive; immunostimulatory; antiinflammatory; cyostatic;
 KM neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;
 KM amyloid protein; angiotensin; apoptosis related protein; cadherin;
 KM cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
 KM complement related protein; cytochrome; kinesin; cytokine; interferon;
 KM

KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
 KM multifactorial disease; autoimmune disease; infection;
 KM nervous system disease; ss.

XX Homo sapiens.

XX WO200147944-A2.

XX 05-JUL-2001.

XX 28-DEC-2000; 2000MO-US35498.

XX 28-DEC-1999; 99US-0173419.

XX 27-DEC-2000; 2000US-0173419.

XX (CURA-) CURAGEN CORP.

XX Shimketa RA, Leach M;

XX WPI; 2001-465210/50.

XX polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.

PT cancer, autoimmune diseases and infections -

XX Claim 1; Page 2882; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiopoietin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
 CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.

XX Sequence 51 BP; 11 A; 4 C; 4 G; 32 T; 0 other;

XX Query Match 0.98; Score 21.2; DB 22; Length 51;

XX Best Local Similarity 64.0%; Pred. No. 9.3e+04;
 XX Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1749 ACGTGAATTTTAAATCAATCATGTCGCAAAAAAACTTAAGCAA 1798

DB 50 ATGTGTTTCTATTAAAAAATATATACATCCAAAAAATAAAAA 1

Search completed: April 19, 2003, 09:03:18
 Job time : 554 secs

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ALIGNMENTS

```
RESULT 1
US-09-461-697-231
; Sequence 231, Application US/09461697
; Patent No. 6277974
; GENERAL INFORMATION:
; APPLICANT: COGENT NEUROSCIENCE, Inc.
; APPLICANT: Lo, Donald C.
; APPLICANT: Barney, Shawn
; APPLICANT: Thomas, Mary Beth
; APPLICANT: Portbury, Stuart D.
; APPLICANT: Puranam, Kasturi
; APPLICANT: Katz, Lawrence C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING
; TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING
; FILE REFERENCE: 10001-005-999
; CURRENT APPLICATION NUMBER: US/09/461,697
; CURRENT FILING DATE: 1999-12-14
; NUMBER OF SEQ ID NOS: 466
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 231
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-461-697-231

Query Match      1.0%; Score 23.6; DB 4; Length 60;
Best Local Similarity 64.8%; Pred. No. 2.1e+03;
Matches 33; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1635 AAAAAGTGGAGAGGAGATGTGAGCATCTGCAAGTGAACAACACTCAA 1688
DB 7 AAGAAGATGAAGTGGAAATGAGGAAGAGCTGGAAAAGAGAAAGATTAA 60

RESULT 2
US-08-198-094-72
; Sequence 72, Application US/08198094
; Patent No. 5741696
; GENERAL INFORMATION:
; APPLICANT: Cochran Ph.D., Mark D
; TITLE OF INVENTION: Recombinant Equine Herpesvirus
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/198,094
; FILING DATE: February 17, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)977-9550
; TELEFAX: (212)664-0525
; TELEX: 422523
; INFORMATION FOR SEQ ID NO: 72:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 54 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Equine Herpesvirus
PCT-US95-02087-72

Query Match      1.0%; Score 23.6; DB 4; Length 60;
Best Local Similarity 64.8%; Pred. No. 2.1e+03;
Matches 33; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHEICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Equine Herpesvirus
US-08-198-094-72

Query Match      1.0%; Score 23.4; DB 1; Length 54;
Best Local Similarity 67.3%; Pred. No. 2.3e+03;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 760 CATGATGACAGTCACACACATTTTGTGAACATAGATACATGCG 808
DB 1 CCTATGTATCATACATACATGATTAGTGACACTATGAAATACACGG 49

RESULT 3
PCT-US95-02087-72
; Sequence 72, Application PC/TUS9502087
; GENERAL INFORMATION:
; APPLICANT: Cochran, Mark D
; TITLE OF INVENTION: Recombinant Equine Herpesviruses
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White
; STREET: 185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02087
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/198,094
; FILING DATE: February 17, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0525
; TELEX: 422523
; INFORMATION FOR SEQ ID NO: 72:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 54 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Equine Herpesvirus
PCT-US95-02087-72

Query Match      1.0%; Score 23.4; DB 5; Length 54;
Best Local Similarity 67.3%; Pred. No. 2.3e+03;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

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US-08-860-038-15
Sequence 15, Application US/08860038
Patent No. 6287762
GENERAL INFORMATION:
APPLICANT: CROUZET, Joel
APPLICANT: SCHERMAN, Daniel
APPLICANT: WILS, Pierre
TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION
TITLE OF INVENTION: WITH AN IMMOBILIZED OLIGONUCLEOTIDE
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rhone-Poulenc Rorer Inc.
STREET: 500 Arcola Road, Mailstop 3C43
CITY: Collegeville
STATE: PA
COUNTRY: USA
ZIP: 19426
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/860,038
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 94/15162
FILING DATE: 16-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO FR95/01468
FILING DATE: 08-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Savitzky Esq., Martin F.
REGISTRATION NUMBER: 29,699
REFERENCE/DOCKET NUMBER: ST94090-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (610) 454-3816
TELEFAX: (610) 454-3808
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
/

Query Match          1.0%; Score 23.4; DB 4; Length 58;
Best Local Similarity 63.2%; Pred.No.2.3e+03;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0

Cy 118 GACCTGACCAAGCAGAGGACCGGGCTCTGAGAGTAGAGCTGAGAGGGGGTCAAG 174
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 GATCCGAGAGGAGAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 57

RESULT 5
US-09-580-923-15
Sequence 15, Application US/09580923
Patent No. 6319672
GENERAL INFORMATION:
APPLICANT: Crouzet, Joel
APPLICANT: Scherman, Daniel
APPLICANT: Wils, Pierre
APPLICANT: Cameron, Beatrice
APPLICANT: Blanche, Francis
TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN
FILE OF INVENTION: IMMOBILIZED OLIGONUCLEOTIDE
FILE REFERENCE: 03804.0138-01

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CURRENT APPLICATION NUMBER: US/09/580,923
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 08/860,038
PRIOR FILING DATE: 1997-06-09
PRIOR APPLICATION NUMBER: PCT/FR95/01468
PRIOR FILING DATE: 1995-11-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 58
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:
US-09-580-923-15

Query Match      1.0%; Score 23.4; DB 4; Length 58;
Best Local Similarity 63.2%; Pred. No. 2.3e+03;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0

QY      118 GACCTGACCAACCCAGAGACCGGGCTCTGAGATGAGCTGAGAGAGGGGTCAG 174
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      1  GATCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 57

RESULT 6
US-08-823-516-162
Sequence 162, Application US//08823516
Patent No. 5994069
GENERAL INFORMATION:
APPLICANT: Hall, Jeff G.
APPLICANT: Lyamlichev, Victor I.
APPLICANT: Mast, Andrea I.
APPLICANT: Brow, Mary Ann D.
TITLE OF INVENTION: Detection of Nucleic Acids By Multiple
TITLE OF INVENTION: Sequential Invasive Cleavages
NUMBER OF SEQUENCES: 163
CORRESPONDENCE ADDRESS:
ADDRESS: Medlen & Carroll, LLP
STREET: 220 Montgomery Street, Suite 2200
CITY: San Francisco
STATE: California
COUNTRY: United States Of America
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US//08/823,516
FILING DATE: 24-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/01072
FILING DATE: 21-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/759,038
FILING DATE: 02-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/756,386
FILING DATE: 29-NOV-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/682,853
FILING DATE: 12-JUL-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/599,491
FILING DATE: 24-JAN-1996
ATTORNEY/AGENT INFORMATION:

```

NAME: Ingolia, Diane E.
REGISTRATION NUMBER: 40,027
REFERENCE/DOCKET NUMBER: FORS-02736
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 162:
SEQUENCE CHARACTERISTICS:
LENGTH: 54 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "DNA"
US-08-823-516-162

Query Match 1.0%; Score 22.6; DB 2; Length 54;
Best Local Similarity 75.7%; Pred. No. 3.7e+03;
Matches 28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 128 AGCCAGAGAGCGGGCTCTGAGATGAGCTGAGAGA 164
DB 4 AGAAGAGAGAGGGTCTCTCAGAGAGCGGAGAGA 40

RESULT 7
US-08-171-389-63

Sequence 63, Application US/08171389
Patent No. 5578444
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESSER: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,389
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human sodium/potassium ATPase alpha
INDIVIDUAL ISOLATE: 3 subunit (ATP1 A3)
US-08-171-389-63

Query Match 1.0%; Score 22.4; DB 1; Length 44;
Best Local Similarity 72.5%; Pred. No. 3.8e+03;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9 CTGCGCGGGTCCGGGCCATGAGCGACGAGAGGCGCG 48
DB 4 CTCGCGCGAGCGCGGCATATGAGAGCGGAGCGCGCG 43

RESULT 8
US-08-123-936-63

Sequence 63, Application US/08123936
Patent No. 5726014
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
TITLE OF INVENTION: Screening Assay for the Detection of
TITLE OF INVENTION: DNA-Binding Molecules
NUMBER OF SEQUENCES: 640
CORRESPONDENCE ADDRESS:
ADDRESSER: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human sodium/potassium ATPase alpha

INDIVIDUAL ISOLATE: 3 subunit (ATP1 A3)
US-08-123-936-63

Query Match 1.0%; Score 22.4; DB 1; Length 44;
Best Local Similarity 72.5%; Pred. No. 3.8e+03;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9 CTGCGCGGCTCCGGCCCATGAGCGGACGAGAGCGCGG 48
DB 4 CTCCCGCGGACGCGGGCATATGAGAGCGGAGCGGCGG 43

RESULT 9
US-08-475-228A-63
Sequence 63, Application US/08475228A
Patent No. 5869241

GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,228A
FILING DATE: 06-JUN-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993

ATTORNEY/AGENT INFORMATION:
NAME: Stratford, Carol A.

REGISTRATION/DOCKET NUMBER: 34,444
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: double

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human sodium/potassium ATPase alpha
INDIVIDUAL ISOLATE: 3 subunit (ATP1 A3)

US-08-475-228A-63

Query Match 1.0%; Score 22.4; DB 2; Length 44;

Best Local Similarity 72.5%; Pred. No. 3.8e+03;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9 CTGCGCGGCTCCGGCCCATGAGCGGACGAGAGCGCGG 48
DB 4 CTCCCGCGGACGCGGGCATATGAGAGCGGAGCGGCGG 43

RESULT 10
US-08-482-080A-63
Sequence 63, Application US/08482080A
Patent No. 6010845

GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,080A
FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993

ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.

REGISTRATION/DOCKET NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960

INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: double

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human sodium/potassium ATPase alpha
INDIVIDUAL ISOLATE: 3 subunit (ATP1 A3)

US-08-482-080A-63

Query Match 1.0%; Score 22.4; DB 3; Length 44;
Best Local Similarity 72.5%; Pred. No. 3.8e+03;

Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9 CTGGGGGGGTCCGGGCCCATGAGCGACGAGAGGCGCG 48
DB 4 CTCCCGCGACGCGGCGCATATGAGAGCGGAGCGGCGG 43

RESULT 11

US-09-354-947-63

Sequence 63, Application US/09354947

Patent No. 6384208

GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.

APPLICANT: Cantor, Charles R.

APPLICANT: Andrews, Beth M.

APPLICANT: Turin, Lisa M.

TITLE OF INVENTION: Sequence-Directed DNA Binding

TITLE OF INVENTION: Molecules, Compositions and Methods

NUMBER OF SEQUENCES: 664

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.

STREET: 505 Penobscot Drive

CITY: Redwood City

STATE: CA

COUNTRY: USA

ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/354,947

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/482,080

FILING DATE: 07-JUN-1995

APPLICATION NUMBER: US 08/171,389

FILING DATE: 20-DEC-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/123,936

FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/996,783

FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/723,618

FILING DATE: 27-JUN-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/081,070

FILING DATE: 22-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Brady, John F.

REGISTRATION NUMBER: 39,118

REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 324-0880

TELEFAX: (650) 324-0960

INFORMATION FOR SEQ ID NO: 63:

SEQUENCE CHARACTERISTICS:

LENGTH: 44 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human sodium/potassium ATPase alpha

INDIVIDUAL ISOLATE: 3 subunit (ATP1 A3)

US-09-354-947-63

Query Match 1.0%; Score 22.4; DB 4; Length 44;

Best Local Similarity 72.5%; Pred. No. 3.8e+03;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9 CTGGGGGGGTCCGGGCCCATGAGCGACGAGAGGCGCG 48
DB 4 CTCCCGCGACGCGGCGCATATGAGAGCGGAGCGGCGG 43

RESULT 12

PCT-US93-12388-63

Sequence 63, Application PC/TUS9312388

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: Sequence-Directed DNA Binding

TITLE OF INVENTION: Molecules, Compositions and Methods

NUMBER OF SEQUENCES: 641

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.

STREET: 505 Penobscot Drive

CITY: Redwood City

STATE: CA

COUNTRY: USA

ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US93/12388

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/123,936

FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/996,783

FILING DATE: 23-DEC-1992

ATTORNEY/AGENT INFORMATION:

NAME: Fabian, Gary R.

REGISTRATION NUMBER: 33,875

REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 324-0880

TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 63:

SEQUENCE CHARACTERISTICS:

LENGTH: 44 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human sodium/potassium ATPase alpha

INDIVIDUAL ISOLATE: 3 subunit (ATP1 A3)

PCT-US93-12388-63

Query Match 1.0%; Score 22.4; DB 5; Length 44;

Best Local Similarity 72.5%; Pred. No. 3.8e+03;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 9 CTGGGGGGGTCCGGGCCCATGAGCGACGAGAGGCGCG 48
DB 4 CTCCCGCGACGCGGCGCATATGAGAGCGGAGCGGCGG 43

RESULT 13

US-08-171-389-212

Sequence 212, Application US/08171389

Patent No. 5578444

GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.

APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk B.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESSER: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,389
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 212:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human interleukin 4 gene
US-08-171-389-212
Query Match 0.9%; Score 22.2; DB 1; Length 45;
Best Local Similarity 77.1%; Pred. No. 4.4e+03;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 933 TGACAAATCTCAATGTAACTCAATTGCTC 967
DB 9 TAAAGAAATTTCCAAATGTAACTCAATTGCTC 43
RESULT 14
US-08-123-936-212
Sequence 212, Application US/08123936
Patent No. 5726014
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
TITLE OF INVENTION: Screening Assay for the Detection of

TITLE OF INVENTION: DNA-Binding Molecules
NUMBER OF SEQUENCES: 640
CORRESPONDENCE ADDRESS:
ADDRESSER: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 212:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human interleukin 4 gene
US-08-123-936-212
Query Match 0.9%; Score 22.2; DB 1; Length 45;
Best Local Similarity 77.1%; Pred. No. 4.4e+03;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 933 TGACAAATCTCAATGTAACTCAATTGCTC 967
DB 9 TAAAGAAATTTCCAAATGTAACTCAATTGCTC 43
RESULT 15
US-08-475-228A-212
Sequence 212, Application US/08475228A
Patent No. 5869241
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk B.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSER: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,228A
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Stratford, Carol A.
REGISTRATION NUMBER: 34,444
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 212:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human interleukin 4 gene
US-08-475-228A-212

Query Match 0.9%; Score 22.2; DB 2; Length 45;
Best Local Similarity 77.1%; Pred. No. 4.4e+03;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 933 TGACAAATCTCAAGTAACTCAATTGCGCTC 967
Db 9 TAAAGAAATTTCAGTAACTCAATTGCGCTC 43

RESULT 16
US-08-482-080A-212
Sequence 212, Application US/08482080A
Patent No. 6010849
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/482,080A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 212:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human interleukin 4 gene
US-08-482-080A-212

Query Match 0.9%; Score 22.2; DB 3; Length 45;
Best Local Similarity 77.1%; Pred. No. 4.4e+03;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 933 TGACAAATCTCAAGTAACTCAATTGCGCTC 967
Db 9 TAAAGAAATTTCAGTAACTCAATTGCGCTC 43

RESULT 17
US-09-354-947-212
Sequence 212, Application US/09354947
Patent No. 6384208
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/354,947
FILING DATE:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/482,080
 FILING DATE: 07-JUN-1995
 APPLICATION NUMBER: US 08/171,389
 FILING DATE: 20-DEC-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/123,936
 FILING DATE: 17-SEP-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/996,783
 FILING DATE: 23-DEC-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/723,618
 FILING DATE: 27-JUN-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/081,070
 FILING DATE: 22-JUN-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Brady, John F.
 REGISTRATION NUMBER: 39,118
 REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 324-0880
 TELEFAX: (650) 324-0960
 INFORMATION FOR SEQ ID NO: 212:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 45 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHEetical: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: Human interleukin 4 gene

```

Query Match          0.9%; Score 22.2; DB 4; Length 45;
Best Local Similarity 77.1%; Pred. No. 4,4e+03;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy      933 TGACAAATCCCAATGTAAACTCAATTTGGCTC 967
      ||||| ||||| ||||| ||||| |||||
Db      9 TACGAAATTTCCATGTAAACTCATTTTCCCTC 43

RESULT 18
PCT-US93-12388-212
; Sequence 212 Application PC/TUS9312388
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Sequence-Directed DNA Binding
; TITLE OF INVENTION: Molecules, Compositions and Methods
; NUMBER OF SEQUENCES: 641
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genelabs Technologies, Inc.
; STREET: 505 Penobscot Drive
; CITY: Redwood City
; STATE: CA
; COUNTRY: USA
; ZIP: 94063

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12388
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: US 07/996,783
 FILING DATE: 23-DEC-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Fabian, Gary R.
 REGISTRATION NUMBER: 33, 875
 REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 324-0880
 TELEFAX: (415) 324-0960
 INFORMATION FOR SEQ ID NO: 212:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 45 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: Human interleukin 4 gene
 PCT-US93-12388-212

	Query Match	70.9%	Score 22.2	DB 5	Length 45;
	Best Local Similarity	77.1%	Pred. No. 4.4e+03;		
	Matches 27; Conservative	0;	Mismatches 8;	Indels 0;	Gaps 0;
Qy	933 TGACAAATCTCAATGTATAACTCATTTGGCCT	967			
Dd	9 TTAAGAAAATTTCATGTAAGTAACTCAATTTCCCT	43			

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RESULT 19
US-09-641-638-880/C
: Sequence 880, Application US/09641638
: Patent No. 6432648
: GENERAL INFORMATION:
: APPLICANT: Blumenfeld, Marta
: APPLICANT: Bougueleret, Lydie
: APPLICANT: Chumakov, Ilya
: APPLICANT: Cohen, Annick
: TITLE OF INVENTION: BILLETIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
: TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
: FILE REFERENCE: GENSET.051CPI
: CURRENT APPLICATION NUMBER: US/09/641,638
: PRIOR FILING DATE: 2000-08-16
: PRIOR APPLICATION NUMBER: US 09/502,330
: PRIOR FILING DATE: 2000-02-11
: PRIOR APPLICATION NUMBER: US 60/133,200
: PRIOR FILING DATE: 1999-05-07
: PRIOR APPLICATION NUMBER: US 09/275,267
: PRIOR FILING DATE: 1999-03-23
: PRIOR APPLICATION NUMBER: US 60/119,917
: PRIOR FILING DATE: 1999-02-12
: NUMBER OF SEQ ID NOS: 1304
: SOFTWARE: Patent.pm
: SEQ ID NO 880
: LENGTH: 47
: TYPE: DNA
: ORGANISM: Homo Sapiens
: FEATURE:
: NAME/KEY: allele
: LOCATION: 24
: OTHER INFORMATION: 10-88-81 : polymorphic base C or T
: US-09-641-638-880

```

```

Query Match      0.9%  Score 22.7  DB 4  Length 47;
Best Local Similarity 66.7%  Pred. No. 4.5+03;
Matches 30; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

QY 2107 AATCTTTTATTAATAATATATATTTTCAATBGAATTTTGAT 2151
Db 47 ATGTTTGGTTGATTTCAACATAGAGTTTCAGTATATACCTTTTAAT 3

```

RESULT 20
US-08-975-703-31
Sequence 31, Application US/08975703
Patent No. 6030832
GENERAL INFORMATION:
APPLICANT: Wong, Alexander K.C.
APPLICANT: Bartel, Paul L.
APPLICANT: Teng, David H.-F.
APPLICANT: Tavtigian, Sean V.
TITLE OF INVENTION: A Carboxy-Terminal BRCA1 Interacting
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, F199, Ernst & Kurz, P.C.
STREET: 555 Thirteenth Street, N.W., Suite 701 East
STREET: Tower
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/975,703
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Stephen A.
REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 2318-0174
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-624-1589
TELEFAX: 202-783-6031
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 42 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Primer"
US-08-975-703-31

Query Match 0.9%; Score 22; DB 3; Length 42;
Best Local Similarity 73.7%; Pred. No. 4.8e+03;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 2034 TTTTCCAGGCAAAATGGAGGCAAGCAAAAGAAA 2071
DB 2 TTTTCCAGTCACGACGGAGGAAATCACAAGAAACA 39

RESULT 21
US-09-515-884-31
Sequence 31, Application US/09515884
Patent No. 6235263
GENERAL INFORMATION:
APPLICANT: Wong, Alexander K.C.
APPLICANT: Bartel, Paul L.
APPLICANT: Teng, David H.-F.
APPLICANT: Tavtigian, Sean V.
TITLE OF INVENTION: A Carboxy-Terminal BRCA1 Interacting
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, F199, Ernst & Kurz, P.C.
STREET: 555 Thirteenth Street, N.W., Suite 701 East
STREET: Tower
CITY: Washington
STATE: DC

COUNTRY: U.S.A.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/515,884
FILING DATE: 29-Feb-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/975,703
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Stephen A.
REGISTRATION NUMBER: 38,609
REFERENCE/DOCKET NUMBER: 2318-0174
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-624-1589
TELEFAX: 202-783-6031
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 42 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Primer"
SEQUENCE DESCRIPTION: SEQ ID NO: 31:
US-09-515-884-31

Query Match 0.9%; Score 22; DB 4; Length 42;
Best Local Similarity 73.7%; Pred. No. 4.8e+03;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 2034 TTTTCCAGGCAAAATGGAGGCAAGCAAAAGAAA 2071
DB 2 TTTTCCAGTCACGACGGAGGAAATCACAAGAAACA 39

RESULT 22
US-08-860-038-16/c
Sequence 16, Application US/08860038
Patent No. 6287762
GENERAL INFORMATION:
APPLICANT: CROUZET, Joel
APPLICANT: SCHERMAN, Daniel
APPLICANT: WILS, Pierre
TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION
TITLE OF INVENTION: WITH AN IMMOBILIZED OLIGONUCLEOTIDE
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rhone-Poulenc Rorer Inc.
STREET: 500 Atcoila Road, Mailstop 3C43
CITY: Collegeville
STATE: PA
COUNTRY: USA
ZIP: 19426
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/860,038
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 94/15162
FILING DATE: 16-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO FR95/01468

FILING DATE: 08-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Savitzky Esq., Martin F.
REGISTRATION NUMBER: 29,699
REFERENCE/DOCKET NUMBER: ST94090-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (610) 454-3816
TELEFAX: (610) 454-3808
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
US-08-860-038-16

Query Match 0.9%; Score 22; DB 4; Length 58;
Best Local Similarity 63.0%; Pred. No. 5.7e+03;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 123 GGACGACCCGAGAGCGCGCTCTGAGATGAGCTGAGAGGGGGGTCAATT 176
DB 54 GGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGATT 1

RESULT 23
US-09-580-923-16/c
Sequence 16, Application US/09580923
Patent No. 6319672
GENERAL INFORMATION:
APPLICANT: Crouzet, Joel
APPLICANT: Schermer, Daniel
APPLICANT: Wills, Pierre
APPLICANT: Cameron, Beatrice
APPLICANT: Blanchet, Francis
TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN
TITLE OF INVENTION: IMMOBILIZED OLIGONUCLEOTIDE
FILE REFERENCE: 03804.0138-01
CURRENT APPLICATION NUMBER: US/09/580,923
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 08/860,038
PRIOR FILING DATE: 1997-06-09
PRIOR APPLICATION NUMBER: PCT/FR95/01468
PRIOR FILING DATE: 1995-11-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 58
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:
US-09-580-923-16

Query Match 0.9%; Score 22; DB 4; Length 58;
Best Local Similarity 63.0%; Pred. No. 5.7e+03;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 123 GGACGACCCGAGAGCGCGCTCTGAGATGAGCTGAGAGGGGGGTCAATT 176
DB 54 GGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGGAGATT 1

RESULT 24
US-09-021-560-5
Sequence 5, Application US/09021560
Patent No. 6410719
GENERAL INFORMATION:
APPLICANT: BOREN, THOMAS
APPLICANT: NORMARK, STAFFAN

APPLICANT: ARNOVIST, ANNA
APPLICANT: ILLER, DAG
TITLE OF INVENTION: BLOOD GROUP ANTIGEN BINDING PROTEIN AND
TITLE OF INVENTION: CORRESPONDING GENES
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSER: BIRCH, STEWART, KOLASCH AND BIRCH
STREET: PO BOX 747
CITY: FALLS CHURCH
STATE: VA
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/021,560
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR, GERALD M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 825-144P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
US-09-021-560-5

Query Match 0.9%; Score 22; DB 4; Length 60;
Best Local Similarity 63.0%; Pred. No. 5.8e+03;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 49 GACGGCTTTTACCCAGCCCGGACTTCGAGACGAGGAACTGAGACATGCA 102
DB 7 GACGGCTTTTACACAGCGTAGGCTATCAATGCGTAGAGCCGCTCAATGCTA 60

RESULT 25
US-08-983-607-7/c
Sequence 7, Application US/08983607
Patent No. 6140470
GENERAL INFORMATION:
APPLICANT: Alan Garen
APPLICANT: Xiaohong Cai
TITLE OF INVENTION: Human Anti-Tumor Monoclonal Anti-
TITLE OF INVENTION: bodies
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSER: Department of Molecular Biophysics
ADDRESSER: and Biochemistry, Yale University
STREET: 266 Whitney Avenue
CITY: New Haven
STATE: Connecticut
COUNTRY: United States of America
ZIP: 06520-8114
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" 1.44 MB diskette
COMPUTER: IBM PC
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Processing
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/983,607
FILING DATE: April 27, 1998
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/IB96/01032
FILING DATE: June 28, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mary M. Krinsky
REGISTRATION NUMBER: 32423
REFERENCE/DOCKET NUMBER: OCR-679
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-773-9544
TELEFAX: 203-773-1183
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 residues
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
DESCRIPTION: primer used in constructs
US-08-983-607-7

Query Match 0.9%; Score 21.8; DB 3; Length 50;
Best Local Similarity 67.4%; Pred. No. 5.9e+03;
Matches 29; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

Qy 1501 GCATCGGACCACTTCCATACGACAGCCGCACTCTGGGCCAT 1543
Db 43 SCAMCAGCTGCACTCGGCCACGTGCGCCGAACTCTGAGCCAT 1

RESULT 26
US-08-983-607-44/c
Sequence 44, Application US/08983607
Patent No. 6140470
GENERAL INFORMATION:
APPLICANT: Alan Garen
TITLE OF INVENTION: Human Anti-Tumor Monoclonal Anti-
TITLE OF INVENTION: bcdies
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Department of Molecular Biophysics
ADDRESSER: and Biochemistry, Yale University
STREET: 266 Whitney Avenue
CITY: New Haven
STATE: Connecticut
COUNTRY: United States of America
ZIP: 06520-8114
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" 1.44 Mb diskette
COMPUTER: IBM PC
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Processing
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/983,607
FILING DATE: April 27, 1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/IB96/01032
FILING DATE: June 28, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mary M. Krinsky
REGISTRATION NUMBER: 32423
REFERENCE/DOCKET NUMBER: OCR-679
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-773-9544
TELEFAX: 203-773-1183
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 residues
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: DNA
DESCRIPTION: primer used in constructs
US-08-983-607-44

Query Match 0.9%; Score 21.8; DB 3; Length 50;
Best Local Similarity 67.4%; Pred. No. 5.9e+03;
Matches 29; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

Qy 1501 GCATCGGACCACTTCCATACGACAGCCGCACTCTGGGCCAT 1543
Db 43 SCAMCAGCTGCACTCGGCCACGTGCGCCGAACTCTGAGCCAT 1

RESULT 27
US-08-821-559A-12
Sequence 12, Application US/08821559A
Patent No. 5846774
GENERAL INFORMATION:
APPLICANT: XIA, YUANNAN
TITLE OF INVENTION: CHLORELLA VIRUS PROMOTERS
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSER: Merchant, Gould, Smith, Edell, Welter & Schmidt
STREET: 3100 No. 5846774west Center, 90 South Seventh St
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/821,559A
FILING DATE: 21-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Kettelberger, Denise M
REGISTRATION NUMBER: 33,924
REFERENCE/DOCKET NUMBER: 8648.63-US-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/371-5268
TELEFAX: 612/332-9081
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-821-559A-12

Query Match 0.9%; Score 21.4; DB 2; Length 48;
Best Local Similarity 66.0%; Pred. No. 7.5e+03;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 2233 CTTCTCTGTGTAATATATATGCAATGATCAATGTTAACA 2279
Db 2 CTTATCGTTGATATGATATGACAAATGACGCTGATACACA 48

RESULT 28
US-09-400-541-12
Sequence 12, Application US/09400541
Patent No. 6316224
GENERAL INFORMATION:
APPLICANT: BIONEERASKA, INC.

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:
OTHER INFORMATION: oligonucleotide
US-09-580-923-34

Query Match
Best Local Similarity 66.0%; Score 21.4; DB 4; Length 48;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Db 2233 CTCTCTTGGTGAATATATAATGCAATGATTCATTGTTAACA 2279
2 CTTATCGTTGATATGATTAATGCAAAATGATCGCTGTTCAACA 48

RESULT 29
US-09-580-923-34
Sequence 34, Application US/09580923
Patent No. 6313672
GENERAL INFORMATION:
APPLICANT: Crouzet, Joel
APPLICANT: Sherman, Daniel
APPLICANT: Wills, Pierre
APPLICANT: Cameron, Beatrice
APPLICANT: Blanche, Francis
TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN
FILE REFERENCE: 03804.0138-01
CURRENT APPLICATION NUMBER: US/09/580,923
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 08/860,038
PRIOR FILING DATE: 1997-06-09
PRIOR APPLICATION NUMBER: PCT/FR95/01468
PRIOR FILING DATE: 1995-11-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 34
LENGTH: 48
TYPE: DNA
ORGANISM: Artificial Sequence

US-09-400-541-12
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
MOLECULE TYPE: CDNA
TOPOLOGY: linear
STRANDEDNESS: single
TYPE: nucleic acid
LENGTH: 48 base pairs
SEQUENCE CHARACTERISTICS:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/400,541
FILING DATE: 21-Sep-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/821,559
FILING DATE: 21-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Kettelberger, Denise M
REGISTRATION NUMBER: 33,924
REFERENCE/DOCKET NUMBER: 8648.63WO11
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-332-5300
TELEFAX: 612-332-9081
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-400-541-12

Query Match
Best Local Similarity 66.0%; Score 21.4; DB 4; Length 48;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Db 2233 CTCTCTTGGTGAATATATAATGCAATGATTCATTGTTAACA 2279
2 CTTATCGTTGATATGATTAATGCAAAATGATCGCTGTTCAACA 48

RESULT 29
US-09-580-923-34
Sequence 34, Application US/09580923
Patent No. 6313672
GENERAL INFORMATION:
APPLICANT: Crouzet, Joel
APPLICANT: Sherman, Daniel
APPLICANT: Wills, Pierre
APPLICANT: Cameron, Beatrice
APPLICANT: Blanche, Francis
TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN
FILE REFERENCE: 03804.0138-01
CURRENT APPLICATION NUMBER: US/09/580,923
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 08/860,038
PRIOR FILING DATE: 1997-06-09
PRIOR APPLICATION NUMBER: PCT/FR95/01468
PRIOR FILING DATE: 1995-11-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 34
LENGTH: 48
TYPE: DNA
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:
OTHER INFORMATION: oligonucleotide
US-09-580-923-34

Query Match
Best Local Similarity 66.0%; Score 21.4; DB 4; Length 48;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Db 123 GGAGCAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGG 169
1 GGAGG 47

RESULT 30
US-09-899-999-12
Sequence 12, Application US/09899999
Patent No. 6395965
GENERAL INFORMATION:
APPLICANT: BIONERASKA, INC.
TITLE OF INVENTION: CHLORELLA VIRUS PROMOTERS
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
STREET: 3100 No. 6395965west Center, 90 South 7th Street
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899,999
FILING DATE: 09-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/400,541
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Kettelberger, Denise M
REGISTRATION NUMBER: 33,924
REFERENCE/DOCKET NUMBER: 8648.63WO11
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-332-5300
TELEFAX: 612-332-9081
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-899-999-12

Query Match
Best Local Similarity 66.0%; Score 21.4; DB 4; Length 48;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Db 2233 CTCTCTTGGTGAATATATAATGCAATGATTCATTGTTAACA 2279
2 CTTATCGTTGATATGATTAATGCAAAATGATCGCTGTTCAACA 48

RESULT 31
US-08-113-646A-41
Sequence 41, Application US/08113646A
Patent No. 5578468
GENERAL INFORMATION:

APPLICANT: PICKUP, David J.
APPLICANT: PATEL, Dhaval Kumar
APPLICANT: ANTZAK, James B.
TITLE OF INVENTION: SITE-SPECIFIC RNA CLEAVAGE
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESSES:
ADDRESSEE: NIXON & VANDERHAYE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/113,646A
FILING DATE: 31-AUG-1993
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/084,406
FILING DATE: 10-AUG-1987
ATTORNEY/AGENT INFORMATION:
NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 1579-20
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 55 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
US-08-113-646A-41

Query Match 0.9%; Score 21.4; DB 1; Length 55;
Best Local Similarity 57.4%; Pred. No. 8.1e+03;
Matches 27; Conservative 4; Mismatches 16; Indels 0; Gaps 0;

QY 1754 GATTTAAATCATCATGTCGCAAAAAAAGCTTAAAGCAAAA 1800
DB 8 GAUU 54

RESULT 32
US-08-143-219-18
Sequence 18, Application US/08143219
Patent No. 5670330
GENERAL INFORMATION:
APPLICANT: Sonnenberg, Nahum
APPLICANT: Katze, Michael G.
APPLICANT: Roy, Sophie
APPLICANT: Koromilas, Antonis E.
APPLICANT: Barber, Glen N.
TITLE OF INVENTION: TUMOR-CELL ASSAY METHOD AND KIT
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Lyon & Lyon
STREET: 611 West Sixth Street
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90017
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM compatible
OPERATING SYSTEM: PC-DOS (Version 5.0)

SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/143,219
FILING DATE: October 25, 1993
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
PRIOR APPLICATION DATA: including application
PRIOR APPLICATION DATA: described below:
APPLICATION NUMBER: 08/141,244
FILING DATE: October 22, 1993
APPLICATION NUMBER: 07/953,681
FILING DATE: September 29, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Douglas E. Olson
REGISTRATION NUMBER: 22,798
REFERENCE/DOCKET NUMBER: 204/139
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: COMPLEMENTARY TO THE RNA PROBE FOR
INDIVIDUAL ISOLATE: PR-VI, FIGURE 5
US-08-143-219-18

Query Match 0.9%; Score 21.4; DB 1; Length 60;
Best Local Similarity 61.8%; Pred. No. 8.4e+03;
Matches 34; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 644 TGCGGCAATTACATCAAAAGGGATCATCTACAGAGCTGAAGCCGAGAAATAT 698
DB 5 TGGATTATATATCATCAAAAATAATATCATAGAGATCTTAAGCCAAATATAT 59

RESULT 33
US-08-584-040-8235
Sequence 8235, Application US/08584040
Patent No. 6346398
GENERAL INFORMATION:
APPLICANT: Payco, Pamela
APPLICANT: McSwigen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
NUMBER OF SEQUENCES: 8502
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040

```

?      FILING DATE:  January 11, 1996
?      CLASSIFICATION:  514
?      PRIOR APPLICATION DATA:
?      APPLICATION NUMBER:  60/005,974
?      FILING DATE:  October 26, 1995
?      ATTORNEY/AGENCY INFORMATION:
?      NAME:  Wachtburg, Richard J.
?      REGISTRATION NUMBER:  32,327
?      REFERENCE/DOCKET NUMBER:  218,066
?      TELECOMMUNICATION INFORMATION:
?      TELEPHONE:  (213) 489-1600
?      TELEFAX:  (213) 955-0440
?      TELEX:  67-3510
?      INFORMATION FOR SEQ. ID NO:  8235:
?      SEQUENCE CHARACTERISTICS:
?      LENGTH:  54 base pairs
?      TYPE:  nucleic acid
?      STRANDEDNESS:  single
?      TOPOLOGY:  linear
?
US-08-584-040-8235

```

Query Match	0.9%;	Score 21.2;	DB 4;	Length 54;
Best Local Similarity	52.0%;	Pred. No. 9e+03;		
Matches	26;	Conservative	6;	Mismatches 18;
				Indels 0;
				Gaps 0

QY 2045 AAAATGGGAGGCAAGACAAAGAACTTACCATTTGATGTTTACGTG 2094
 || : ||| ||||| ||||| || : : ||| :
 Db 2 AATUGGAGAGCAAGACCAAGAAACACGUGUGGACATUACUG 51

```

RESULT 34
US-09-508-542-13
; Sequence 13, Application US/09508542
; Patent No. 6339174
; GENERAL INFORMATION:
; APPLICANT: STRAUSS, ANDREAS
; APPLICANT: THUMM, GUNTHER
; APPLICANT: POHLNER, JOHANNES
; APPLICANT: GÖTZ, FRIEDRICH
; TITLE OF INVENTION: METHOD FOR IDENTIFYING A NUCLEIC ACID
; FILE REFERENCE: 10496/P65266USO
; CURRENT APPLICATION NUMBER: US/09/508,542
; CURRENT FILING DATE: 2000-05-16
; PRIOR APPLICATION NUMBER: PCT/SP98/06136
; PRIOR FILING DATE: 1998-09-26
; PRIOR APPLICATION NUMBER: 97 116 841.4
; PRIOR FILING DATE: 1997-09-27
; PRIOR APPLICATION NUMBER: 97 118 755.4
; PRIOR FILING DATE: 1997-10-29
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 56
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-508-542-13

```

Query Match	0.9%	Score 21.2	DB 4	Length 56
Best Local Similarity	69.0%	Pred No. 9.2e+03		
Matches 29, Conservative	0	Mismatches 13	Indels 0	Gaps 0

```
QY      221 GCATGGAACATTGTGAGAAATTTGAAATCTCAGAAACTAGTG 262
          ||| | | | | | | | | | | | | | | | | | | |
Db       9 GCTTACCACAATCTAAGAATCTGAATATCTCAAGCAAGTG 50
```

RESULT 35
US-08-417-210A-103/C
; Sequence 103, Application US/08417210A
; Patent No. 5863542

1 GENERAL INFORMATION:
2 APPLICANT: PAOLETTI, ENZO
3 APPLICANT: TARTAGLIA, JAMES
4 APPLICANT: COX, WILLIAM I.
5 TITLE OF INVENTION: IMMUNODEFICIENCY RECOMBINANT POXVIRUS
6
7 NUMBER OF SEQUENCES: 148
8
9 CORRESPONDENCE ADDRESS:
10 ADDRESSEE: CURTIS, MORRIS & SAFFORD, P.C.
11 STREET: 530 FIFTH AVENUE
12 CITY: NEW YORK
13 STATE: NEW YORK
14 COUNTRY: USA
15
16 ZIR: 10036
17

```

1  COMPUTER READABLE FORM:
2  MEDIUM TYPE: Floppy disk
3  COMPUTER: IBM PC compatible
4  OPERATING SYSTEM: PC-DOS/MS-DOS
5  SOFTWARE: PatentIn Release #1.0, Version #1.30
6  CURRENT APPLICATION DATA:
7  APPLICATION NUMBER: US/08/417,210A
8  FILING DATE: 05-Apr-1995
9  CLASSIFICATION: A15

```

```

1 CLASSIFICATION: 435
2
3 ATTORNEY/AGENT INFORMATION:
4
5 NAME: KOMALSKI, THOMAS J.
6
7 REGISTRATION NUMBER: 32,147
8
9 REFERENCE/DOCKET NUMBER: 454310-2630
10
11 TELECOMMUNICATION INFORMATION:
12
13 TELEPHONE: 212-840-3333
14
15 INFORMATION FOR SEQ ID NO: 103:

```

```

; SEQUENCE CHARACTERISTICS:
; LENGTH: 58 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
;
US-08-417-210A-103

```

Query Match	0.9%	Score	21.2	DB	2	Length	58
Best Local Similarity	64.0%	Pred. NC	9.4e+03				
Matches	32	Conservative	0	Mismatches	18	Indels	0
						Gaps	0

```

Oy  2221  CAACCTTCGTCTCTCTCTGTGGTGAATAATAAATGCAAATGAATCATTT 22700
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db  51  CTAGCTGCTCTCTCTGTAGTGCATTTATATGTGAATTATATATTT 2

```

RESULT 36
US-08-417-210A-108
; Sequence 108, Application US/08417210A
; Patent No. 5863542

1 APPLICANT: PAOLETTI, ENZO
2 APPLICANT: TARTAGLIA, JAMES
3 APPLICANT: COX, WILLIAM I.
4 TITLE OF INVENTION: IMMUNODEFICIENCY RECOMBINANT POXVIRUS
5 NUMBER OF SEQUENCES: 148
6 CORRESPONDENCE ADDRESS:
7 ADDRESSEE: CURTIS, MORRIS & SAFFORD, P.C.

CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

SOFTWARE: PatentIn Release #1.0, Version #1.30

APPLICATION NUMBER: US/08/417, 210A

CLASSIFICATION: 435

Page 15

NAME: KOWALSKI, THOMAS J.
REGISTRATION NUMBER: 32,147
REFERENCE/DOCKET NUMBER: 454310-2690
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-840-3333
INFORMATION FOR SEQ ID NO: 108:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-417-210A-108

Query Match 0.9%; Score 21.2; DB 4; Length 58;
Best Local Similarity 64.0%; Pred. No. 9.4e+03;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 2221 CAACTCTGTTCTTCTTCTGGAATTAATGAATGCAATGATCATT 2270
DB 7 CTAGCTCTGCTTCTTCTGTTAGTGGCATTTATATTGTAATATATATT 56

RESULT 37
US-09-532-656-17
Sequence 17, Application US/09532656
Patent No. 6316608
GENERAL INFORMATION:
APPLICANT: Reynolds, Mark A.
APPLICANT: Ruvoio, Michael
APPLICANT: Arnold, Jr., Lyle J.
TITLE OF INVENTION: COMBINED POLYNUCLEOTIDE SEQUENCES AS DISCRETE ASSAY ENDPOINTS
FILE REFERENCE: IN-0017 US
CURRENT APPLICATION NUMBER: US/09/532,656
CURRENT FILING DATE: 2000-03-20
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PERL Program
SEQ ID NO 17
LENGTH: 59
TYPE: DNA
ORGANISM: Candida albicans
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. 6316608 F23S805
US-09-532-656-17

Query Match 0.9%; Score 21; DB 4; Length 59;
Best Local Similarity 66.7%; Pred. No. 1.1e+04;
Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1078 TTCTTAGACACATTACTGGAAGAACTTCTGCTCGAAGGTG 1122
DB 5 TTCTTAGTGCATTTAAAGAGAAAAGTGTGTTGAATGTG 49

RESULT 38
US-09-775-319-4
Sequence 4, Application US/09775319
Patent No. 6387631
GENERAL INFORMATION:
APPLICANT: Arnold, Jr., Lyle J.
APPLICANT: Sawan, Samuel P.
APPLICANT: Lee, Paul H.
TITLE OF INVENTION: POLYMER COATED SURFACES FOR MICROARRAY APPLICATIONS
FILE REFERENCE: IN-0038 US
CURRENT APPLICATION NUMBER: US/09/775,319
CURRENT FILING DATE: 2001-02-01
PRIOR APPLICATION NUMBER: 09/532,419
PRIOR FILING DATE: 2000-12-20
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PERL Program
SEQ ID NO 4
LENGTH: 59

TYPE: DNA
ORGANISM: Candida albicans
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. 6387631 F23S805
US-09-775-319-4

Query Match 0.9%; Score 21; DB 4; Length 59;
Best Local Similarity 66.7%; Pred. No. 1.1e+04;
Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1078 TTCTTAGACACATTACTGGAAGAACTTCTGCTCGAAGGTG 1122
DB 5 TTCTTAGTGCATTTAAAGAGAAAAGTGTGTTGAATGTG 49

RESULT 39
US-09-532-419A-4
Sequence 4, Application US/09532419A
Patent No. 6413722
GENERAL INFORMATION:
APPLICANT: Arnold, Jr., Lyle J.
APPLICANT: Sawan, Samuel P.
APPLICANT: Lee, Paul H.
TITLE OF INVENTION: POLYMER COATED SURFACES FOR MICROARRAY APPLICATIONS
FILE REFERENCE: IN-0038 US
CURRENT APPLICATION NUMBER: US/09/532,419A
CURRENT FILING DATE: 2000-03-22
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PERL Program
SEQ ID NO 4
LENGTH: 59
TYPE: DNA
ORGANISM: Candida albicans
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. 6413722 F23S805
US-09-532-419A-4

Query Match 0.9%; Score 21; DB 4; Length 59;
Best Local Similarity 66.7%; Pred. No. 1.1e+04;
Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1078 TTCTTAGACACATTACTGGAAGAACTTCTGCTCGAAGGTG 1122
DB 5 TTCTTAGTGCATTTAAAGAGAAAAGTGTGTTGAATGTG 49

RESULT 40
US-08-475-081-2
Sequence 2, Application US/08475081
Patent No. 5948894
GENERAL INFORMATION:
APPLICANT: Berry, Mark J.
APPLICANT: Davis, Paul J.
APPLICANT: Verhoeven, Martine E.
APPLICANT: De Winter, Ronald F.J.
TITLE OF INVENTION: REAGENTS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: CUSHMAN, DARBY & CUSHMAN
STREET: Eleventh Floor, 1615 L. Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
APPLICATION NUMBER: US/08/475,081

Query Match	0.9%	Score 20.6	DB 4	length 50
Best Local Similarity	67.4%	Pred No. 1.3e+04		
Matches 29, Conservative	0	Mismatches 14	Indels 0	Gaps 0

RESULT 44
US-08-929-501-24
; Sequence 24, Application US/08929501

APPLICANT: Naotoshi Tsuji,
DIRECTOR OF INVESTIGATION, JAPANESE HELMETS

TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
; USES THEREOF

TITLE OF INVENTION:
; TITLE OF INVENTION:

NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Carol Iakington Verber, P.O.
ADDRESSEE: Heska Corporation

CITY: Fort Collins

COUNTRY: USA

COMPUTER READABLE FORM
MEDICINE TYPE. F10000

COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 9

```

; SOFTWARE: WordPerfect for Windows, Version 7.0
;
; CURRENT APPLICATION DATA:

```

APPLCATION NUMBER: 05/06/929,500
FILING DATE: 15-SEP-1997

ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER: 37

TELECOMMUNICATION INFORMATION
TELEPHONE. 870/493-7373

TELEFAX: 970/484-9505
; INFORMATION FOR SEO ID NO: 24

```

; SEQUENCE CHARACTERISTICS
; LENGTH: 51 nucleotide

```

STRANDEDNESS: single

Query Match	0.9%	Score 20.6	DB 2	Length 51
Best Local Similarity	67.4%	Pred. No. 1.3e+04		
Matches 29	Conservative 0	Mismatches 14	Indels 0	Gaps 0

RESULT 45
US-09-140-177-24
; Sequence 24, Application US/09140177

GENERAL INFORMATION:

APPLICANT: Naotoshi Tsuji,

TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
TITLE OF INVENTION: USES THEREOF

NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Carol Talkingdon
ADDRESSEE: Heska Corporation

CITY: Fort Collins

COUNTRY: USA

COMPUTER READABLE FORM
MEDIUM TYPE. []

COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 9

```

; SOFTWARE: wordperfect for windows, version 1.0
;
CURRENT APPLICATION DATA:

```

AFFILIATION NUMBER: 08/05/110,111
 FILING DATE:

PRIOR APPLICATION DATA:

FILING DATE: 15-SEP-1997

NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459

REFERENCE/DOCKET NUMBER: HW-6
TELECOMMUNICATION INFORMATION:

TELEPHONE: 970/493-1212
TELEFAX: 970/484-9505

SEQUENCE CHARACTERISTICS

TYPE: nucleic acid

TOPOLOGY: linear

US-09-140-177-24

Query Match	0.9%	Score	20.6	DB	3	length	51
Best Local Similarity	67.4%	Pred. No.	1.3e+04				
Matches	29	Conservative	14	Indels	0	Gaps	0

US-09-397-979-24

; Patent No. 6165735

GENERAL INFORMATION:
APPLICANT: Ramaswamy Chandrasekar
TITLE OF INVENTION: PARASITIC HELMINTH ASPARAGINASE
TITLE OF INVENTION: PROTEIN, NUCLEIC ACID MOLECULES, AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carol Talkington Verser, Ph.D.
STREET: Hesk Corporation
CITY: 1825 Sharp Point Drive
STATE: Port Collins
COUNTRY: Colorado
ZIP: 80525
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Wordperfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/397,979
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/929,501
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: HM-6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/493-7272
TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Primer
US-09-397-979-24

Query Match 0.9%; Score 20.6; DB 4; Length 51;
Best Local Similarity 67.4%; Pred. No. 1.3e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1848 GATCTTTCACCTTATCAAGATTTCATGTTGATGACTCG 1890
DB 9 CTCTTACTGAACCTTTTCATCTTTTCATTTCAATGATGACTAG 51

RESULT 47
US-08-171-389-19
Sequence 19, Application US/08171389
Patent No. 5578444
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Wordperfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/397,979
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/929,501
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: HM-6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/493-7272
TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Primer
US-09-397-979-24

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,389
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human alcohol dehydrogenase beta
INDIVIDUAL ISOLATE: subunit gene
US-08-171-389-19

Query Match 0.9%; Score 20.2; DB 1; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2082 GATGTTTACGTCGAACCAACCGATCTTTTATATATA 2122
DB 1 GATGTTTACGTCGAACCAACCAACCGATCTTTTATATATA 41

RESULT 48
US-08-123-936-19
Sequence 19, Application US/08123936
Patent No. 5726014
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
TITLE OF INVENTION: Screening Assay for the Detection of
TITLE OF INVENTION: DNA-Binding Molecules
NUMBER OF SEQUENCES: 640
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fadian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human alcohol dehydrogenase beta
INDIVIDUAL ISOLATE: subunit gene
US-08-123-936-19

Query Match 0.9%; Score 20.2; DB 1; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2082 GATGTTTACGTGCAACACCTGGAATCTTTTATATA 2122
Db 1 GATGTTACACGACCAACAAATAATATCTGTCAATATA 41

RESULT 49
US-08-475-228A-19
Sequence 19, Application US/08/475228A
Patent No. 5869241
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: GeneLabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,228A
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Stratford, Carol A.
REGISTRATION NUMBER: 34,444
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human alcohol dehydrogenase beta
INDIVIDUAL ISOLATE: subunit gene
US-08-475-228A-19

Query Match 0.9%; Score 20.2; DB 2; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2082 GATGTTTACGTGCAACACCTGGAATCTTTTATATA 2122
Db 1 GATGTTACACGACCAACAAATAATATCTGTCAATATA 41

RESULT 50
US-08-482-080A-19
Sequence 19, Application US/08/482080A
Patent No. 6010849
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: GeneLabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,080A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992

APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human alcohol dehydrogenase beta
US-08-482-080A-19

Query Match 0.9%; Score 20.2; DB 3; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2082 GATGTTTACGTGCAACACCTGAATCTTTTATATA 2122
Db 1 GATGTTACACAGCAACAAATAATATCTGTGCATATA 41

RESULT 51
US-09-354-947-19
Sequence 19, Application US/09354947
Patent No. 6384208
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/354,947
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/482,080
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human alcohol dehydrogenase beta
US-09-354-947-19

Query Match 0.9%; Score 20.2; DB 4; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2082 GATGTTTACGTGCAACACCTGAATCTTTTATATA 2122
Db 1 GATGTTACACAGCAACAAATAATATCTGTGCATATA 41

RESULT 52
PCT-US93-12388-19
Sequence 19, Application PC/TUS9312388
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12388
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human alcohol dehydrogenase beta
PCT-US93-12386-19

Query Match 0.9%; Score 20.2; DB 5; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 2082 GATGTTTACGTGCAACCACTGTAATTTTATTATA 2122
Db 1 GATGTTACACAGCAACCAAAATTAATCTGTGCAATATA 41

RESULT 53
US-08-171-382-11/c
Sequence 11, Application US/08171382
Patent No. 5472856
GENERAL INFORMATION:
APPLICANT: Harris, Crafford A.
APPLICANT: Goldstein, Gideon
APPLICANT: Siekierka, John J.
APPLICANT: Taille, Mary Anne
APPLICANT: Shenbagamurthi, Ponniah
APPLICANT: Culler, Michael D.
APPLICANT: Secavage, Diane R.
TITLE OF INVENTION: Recombinant Human Thymoplectin Proteins
TITLE OF INVENTION: and Uses Therefor
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSER: Howson and Howson
STREET: Spring House Corporate Cntr, P.O. Box 457
City: Spring House
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19477
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,382
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Bak, Mary E.
REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: IRI43USA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9206
TELEFAX: 215-540-5618
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
US-08-171-382-11

Query Match 0.9%; Score 20.2; DB 1; Length 50;
Best Local Similarity 68.3%; Pred. No. 1.6e+04;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
Qy 2226 TCTGTTCTCTCTTGGTGAATAATAAATGCAATGAT 2266

Db 42 TCTAATCTCTCATGTGACCTAGAAAATCCAACTGAT 2

RESULT 54
US-08-584-760A-33/c
Sequence 33, Application US/08584760A
Patent No. 6290953
GENERAL INFORMATION:
APPLICANT: Ballance, David J
APPLICANT: Courtney, Michael G
APPLICANT: Fimris, Christopher J A
APPLICANT: Sleep, Darrell
TITLE OF INVENTION: Medicine
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSER: Centeon L.L.C.
STREET: 1020 First Avenue
City: King of Prussia
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19406-1310
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,760A
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/211,860
FILING DATE: 15-APR-1994
APPLICATION NUMBER: GB 9121815.6
FILING DATE: 14-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Naomi Biswas
REGISTRATION NUMBER: 38,384
REFERENCE/DOCKET NUMBER: 92H853-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610/878-4294
TELEFAX: 610/878/4221
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..60
OTHER INFORMATION: /function="oligonucleotide 32"
US-08-584-760A-33

Query Match 0.9%; Score 20.2; DB 4; Length 60;
Best Local Similarity 63.3%; Pred. No. 1.8e+04;
Matches 31; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 378 GAAATATTTGCCATGAAGTGCTTAAAGCAATGATAGAAAT 426
Db 58 GAAACACTGCGAAGAGCTGCTTAAAGCTGTAAAGCTCTATTAAAT 10

RESULT 55
US-08-222-177A-349
Sequence 349, Application US/08222177A
Patent No. 5582979
GENERAL INFORMATION:
APPLICANT: Weber, James L.

Query Match	0.8%	Score 19.8;	DB 4;	Length 48;
Best Local Similarity	63.8%;	Pred. No. 2.1e+04;		
Matches 30; Conservative	0;	Mismatches 17;	Indels 0;	Gaps 0;

```

QY      1642  TGGAGACGGAGAGATGTGTGAGCATCTGCAAGGTGAAAAACAAGACTCAA 16888
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db       2    TGAAGCTGGAATGAGGAAGAGCTGGAAGAAAGAGAAAGATTNAA 48

```

RESULT 64
US-08-105-483-103

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:
: COMPUTER READABLE FORM:
:
: MEDIUM TYPE: Floppy disk
:
: COMPUTER: IBM PC compatible
:
: OPERATING SYSTEM: PC-DOS/MS-DOS
:
: SOFTWARE: PatentIn Release #1.0, Version #1.25
:
: CURRENT APPLICATION DATA:

```

Query Match	0.8;	Score 19.8;	DB 1;	Length 49;
Best Local	63.8;	Pred. No. 2.1e+04;		
Matches 30;	Conservative	0;	Mismatches 17;	Indels 0;
				Gaps 0;

Qy	2103	CTGAATCTTTT	TATATAA	TATATATTTT	CAATAGATTTT	TCG	2149
Db	3	CTGCCCCATTTT	TATATGTAATTA	TATATTTTCAATTTT	CGAGATCTG		49

RESULT 65
US-08-709-209-103
; Sequence 103, Application US/08709209
; Patent No. 5762538
; GENERAL INFORMATION:
; APPLICANT: Paoletti, Enzo
; TITLE OF INVENTION: GENETICALLY ENGINEERED VACCINE
; TITLE OF INVENTION: STRAIN
; NUMBER OF SEQUENCES: 462
; CORRESPONDENCE ADDRESS:

ADDRESS: Curtis, Morris & Safford
ADDRESSEE: c/o William S. Frommer
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk.
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/709,209
FILING DATE: 21-AUG-1996

Query Match	0.88	Score 19.8	DB 1	Length 49
Best Local Similarity	63.8%	Pred. No. 2.1e+04		
Matches 30; Conservative	0	Mismatches 17	Indels 0	Gaps 0

Oy 2103 C G A A T C T T T T T T T A T A T A A A T A T A T T T T C A A A T A G A T T T T T G 21455
||| ||| | | | | | | | | | | | | |
Db 3 C T G C C C A T T T T A T A T G T A A T A T A T A T T T C A A T T T T G A G A T C T G 49
||| ||| | | | | | | | | | | | | |

RESULT 66
US-08-458-101-103
; Sequence 103, Application US/08458101
; Patent No. 5766599
; GENERAL INFORMATION:
APPLICANT: Paoletti, Enzo
APPLICANT: Perkus, Marion E.
APPLICANT: Taylor, Jill
APPLICANT: Tartaglia, James
APPLICANT: No. 5766599ton, Elizabeth K.
APPLICANT: Riviere, Michel
APPLICANT: de Taïgne, Charles
APPLICANT: Limbach, Keith J.
APPLICANT: Johnson, Gerard P.
APPLICANT: Pincus, Steven E.
APPLICANT: Cox, William I.
APPLICANT: Audomert, Jean-Christophe
APPLICANT: Gettig, Russell Robert
TITLE OF INVENTION: GENETICALLY ENGINEERED VACCINE
TITLE OF INVENTION: STRAIN
NUMBER OF SEQUENCES: 467
CORRESPONDENCE ADDRESS:
ADDRESSEE: Curtis, Morris & Safford
ADDRESSEE: c/o William S. Frommer
STREET: 530 Fifth Avenue
CITY: New York
STATE: NY
COUNTRY: USA

ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458,101
FILING DATE: 01-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOCKET NUMBER: 454310-2740
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 840-3333
TELEFAX: (212) 840-0712
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-458-101-103

Query Match
Best Local Similarity 63.8%; Score 19.8; DB 1; Length 49;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 2103 CTGACCTCTTTTATATATAATATATATTTTCAATAGATTTTG 2149
DB 3 CTGCCCATTTTATATGTATATATATATTTTCAATTTTGAGATCTG 49

RESULT 67
US-09-423-744A-13/C
Sequence 13, Application US/09423744A
Patent No. 6372500
GENERAL INFORMATION:
APPLICANT: HSC Research and Development Limited Partnership
TITLE OF INVENTION: Episomal Expression Cassettes for Gene Therapy
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Rocky, Milanov & Katz, Ltd.
STREET: 180 N. Stetson Avenue, Suite 4700
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/423,744A
FILING DATE: 12-NO. 6372500-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/CA98/00478
FILING DATE: May 14, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Lisa V. Mueller
REFERENCE/DOCKET NUMBER: DWM6064P0020US
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 54 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: -

LOCATION: 1..54
IDENTIFICATION METHOD:
OTHER INFORMATION: /note="K183/SS synthetic DNA
oligo-nucleotide - amplification primer for PCR mutagenesis"
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-423-744A-13

Query Match
Best Local Similarity 69.2%; Score 19.8; DB 4; Length 54;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2097 AACACCTGAATCTTTTATATATAATATATTTT 2135
DB 48 AACACCTCTCTTTTATATATATATATATTTTAT 10

RESULT 68
US-09-415-784-11/C
Sequence 11, Application US/09415784
Patent No. 6391632
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
Polo, John M.
Belli, Barbara A.
Schlesinger, Sondra
Dryga, Sergey A.
Frolov, Ilva
TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
SYNTHESIS
NUMBER OF SEQUENCES: 125
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/415,784
FILING DATE: 08-Oct-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Mcmasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457D1 /1196.006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-415-784-11

Query Match
Best Local Similarity 63.8%; Score 19.8; DB 4; Length 58;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1743 AATTAACGTGATTTTAAATAATCAATCATGTCGAAAAAAAC 1789
DB 57 AACAAATTTTGTTTTAACTTCAAAAAAAAAAAAAAAAAAAC 11

RESULT 69

REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457C4 / 1196.005
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-415-868-11

Query Match 0.8%; Score 19.8; DB 4; Length 58;
Best Local Similarity 63.8%; Pred. No. 2.3e+04;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1743 AATATAACGTGATTTTAAATAATCAATGTCGCAAAAAAAC 1789
DB 57 AACAAATTTGTTTAACTTTCAAAAAAAC 11

RESULT 72
US-09-415-900-11/c
Sequence 11, Application US/09415900
Patent No. 6465634.
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
APPLICANT: Folo, John W.
APPLICANT: Belli, Barbara A.
APPLICANT: Schlesinger, Sondra
APPLICANT: Dryga, Sergey A.
APPLICANT: Frolow, Ilya
TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
TITLE OF INVENTION: WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
NUMBER OF SEQUENCES: 125
SYNTHESIS
CORRESPONDENCE ADDRESSES:
ADDRESSER: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/415,900
FILING DATE: 08-Oct-1999
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McMaster, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457D4
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-415-900-11

Query Match 0.8%; Score 19.8; DB 4; Length 58;
Best Local Similarity 63.8%; Pred. No. 2.3e+04;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 1743 AATATAACGTGATTTTAAATAATCAATGTCGCAAAAAAAC 1789

DB 57 AACAAATTTGTTTAACTTTCAAAAAAAC 11

RESULT 73
US-08-350-260A-250/c
Sequence 250, Application US/08350260A
Patent No. 5962255
GENERAL INFORMATION:
APPLICANT: Winter, Gregory Paul
APPLICANT: Griffiths, Andrew David
APPLICANT: Williams, Samuel Cameron
APPLICANT: Waterhouse, Peter
APPLICANT: Nieslin, Ahuva
APPLICANT: Johnson, Kevin Stuart
APPLICANT: Smith, Andrew John Hammond
TITLE OF INVENTION: Methods for producing members of specific
NUMBER OF SEQUENCES: 602
CORRESPONDENCE ADDRESSES:
ADDRESSER: David W. Clough
STREET: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/350,260A
FILING DATE: 05-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9110549.4
FILING DATE: 15-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB91/01134
FILING DATE: 10-JUL-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB93/00605
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/150,002
FILING DATE: 31-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/307,619
FILING DATE: 16-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/32372
TELEPHONE: 312-474-6300
TELEFAX: 312-474-6300
INFORMATION FOR SEQ ID NO: 250:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-350-260A-250

Query Match 0.8%; Score 19.6; DB 2; Length 48;
Best Local Similarity 63.6%; Pred. No. 2.3e+04;

ORIGINAL SOURCE:
US-08-508-088-1

Query Match 0.8%; Score 19.6; DB 2; Length 60;
Best Local Similarity 62.0%; Pred. No. 2.6e+04;
Matches 31; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 5 GAGGCTGCGGCGGCTCCGCGCCATGAGCGACGAGAGGCGGCGGCGC 54
DB 2 GCGGCGGCGGCTCCGCGCCATGAGCGACGAGAGGCGGCGGCGC 51

RESULT 77

US-09-009-925-1
Sequence 1, Application US/0909925
Patent No. 5998208

GENERAL INFORMATION:

APPLICANT: CHILDREN'S MEDICAL CENTER CORPORATION
TITLE OF INVENTION: HELPER VIRUS-FREE HERPESVIRUS VECTOR PACKAGING SYSTEM
NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 WATER STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02019

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/009,925

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/12033

FILING DATE: 22-JUL-1996

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/508,088

FILING DATE: 26-JUL-1995

ATTORNEY/AGENT INFORMATION:
NAME: DAVID, RESNICK S

REGISTRATION NUMBER: 34,235

REFERENCE/DOCKET NUMBER: 45485-CON

TELEPHONE: 617-523-3400

TELEFAX: 617-523-6440

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 60 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE:

ORIGINAL SOURCE:

Query Match 0.8%; Score 19.6; DB 2; Length 60;

Best Local Similarity 62.0%; Pred. No. 2.6e+04;

Matches 31; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 5 GAGGCTGCGGCGGCTCCGCGCCATGAGCGACGAGAGGCGGCGGCGC 54

DB 2 GCGGCGGCGGCTCCGCGCCATGAGCGACGAGAGGCGGCGGCGC 51

RESULT 78

US-08-068-747-9/c

Sequence 9, Application US/08068747
Patent No. 5695933

GENERAL INFORMATION:

APPLICANT: Schalling, Martin

APPLICANT: Hudson, Thomas J.

APPLICANT: Hausman, David E.

TITLE OF INVENTION: Direct Determination of Expanded

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Millia Drive

CITY: Lexington

STATE: Massachusetts

COUNTRY: USA

ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/068,747

FILING DATE: 28-MAY-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Granahan, Patricia

REGISTRATION NUMBER: 32,227

REFERENCE/DOCKET NUMBER: MIT-6141

TELEPHONE: 617-861-6240

TELEFAX: 617-861-9540

INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:

LENGTH: 39 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "Synthetic"

US-08-068-747-9

Query Match 0.8%; Score 19.4; DB 1; Length 39;
Best Local Similarity 70.3%; Pred. No. 2.4e+04;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 133 GAGGACGCGGCTCTGAGATGAGCTGAGAGGCGGCGG 169
DB 37 GAGGACGCGGCTCTGAGATGAGCTGAGAGGCGGCGG 1

RESULT 79

US-08-938-830-30

Sequence 30, Application US/0893830

Patent No. 6040437

GENERAL INFORMATION:

APPLICANT: Laesky, Laurence A.

APPLICANT: Dowbenko, Donald J.

TITLE OF INVENTION: Tyrosine Phosphorylated Cleavage

NUMBER OF SEQUENCES: 73

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

LENGTH: 47
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: allele
LOCATION: 24
OTHER INFORMATION: 12-888-98 : polymorphic base G or A
US-09-641-638-1045

Query Match 0.8%; Score 19.4; DB 4; Length 47;
Best Local Similarity 74.2%; Pred. No. 2.7e+04;
Matches 23; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 2120 ATAAATATATATTTTCAATAGATTTTGA 2150
DB 1 ATAAATGTATTTTGAAGTTTCAATA 31

RESULT 83
US-08-983-607-5/c
Sequence 5, Application US/08983607
Patent No. 6140470
GENERAL INFORMATION:
APPLICANT: Alan Garen
APPLICANT: Xiaohong Cai
TITLE OF INVENTION: Human Anti-Tumor Monoclonal Anti-
TITLE OF INVENTION: bodies
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Department of Molecular Biophysics
ADDRESSEE: and Biochemistry, Yale University
STREET: 266 Whitney Avenue
CITY: New Haven
STATE: Connecticut
COUNTRY: United States of America
ZIP: 06520-8114
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" 1.44 Mb diskette
COMPUTER: IBM PC
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Processing
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/983,607
FILING DATE: April 27, 1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/IB96/01032
FILING DATE: June 28, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mary M. Krinsky
REGISTRATION NUMBER: 32423
REFERENCE/DOCKET NUMBER: OCR-679
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-773-9544
TELEFAX: 203-773-1183
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 residues
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
DESCRIPTION: primer used in constructs
US-08-983-607-5

Query Match 0.8%; Score 19.4; DB 3; Length 50;
Best Local Similarity 60.5%; Pred. No. 2.7e+04;
Matches 26; Conservative 3; Mismatches 14; Indels 0; Gaps 0;
QY 1501 GCATCGGACCACTTCCATACGACGCGCAACTCTGGGCGCAT 1543
DB 43 SCWSCAGCTGTAACCTGGGCGCACGTCGGCGCAACCTGAGCGCAT 1

RESULT 84
US-08-983-607-42/c
Sequence 42, Application US/08983607
Patent No. 6140470
GENERAL INFORMATION:
APPLICANT: Alan Garen
APPLICANT: Xiaohong Cai
TITLE OF INVENTION: Human Anti-Tumor Monoclonal Anti-
TITLE OF INVENTION: bodies
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Department of Molecular Biophysics
ADDRESSEE: and Biochemistry, Yale University
STREET: 266 Whitney Avenue
CITY: New Haven
STATE: Connecticut
COUNTRY: United States of America
ZIP: 06520-8114
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" 1.44 Mb diskette
COMPUTER: IBM PC
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Processing
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/983,607
FILING DATE: April 27, 1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/IB96/01032
FILING DATE: June 28, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mary M. Krinsky
REGISTRATION NUMBER: 32423
REFERENCE/DOCKET NUMBER: OCR-679
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-773-9544
TELEFAX: 203-773-1183
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 residues
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
DESCRIPTION: primer used in constructs
US-08-983-607-42

Query Match 0.8%; Score 19.4; DB 3; Length 50;
Best Local Similarity 60.5%; Pred. No. 2.7e+04;
Matches 26; Conservative 3; Mismatches 14; Indels 0; Gaps 0;

QY 1501 GCATCGGACCACTTCCATACGACGCGCAACTCTGGGCGCAT 1543
DB 43 SCWSCAGCTGTAACCTGGGCGCACGTCGGCGCAACCTGAGCGCAT 1

RESULT 85
US-09-264-737-4
Sequence 4, Application US/09264737A
Patent No. 6107549
GENERAL INFORMATION:
APPLICANT: Feng, Paul C.C.
APPLICANT: Ruff, Thomas G.
TITLE OF INVENTION: Engineering Plant Resistance to Pyridines via
TITLE OF INVENTION: Expression of Bacterase Enzymes
FILE REFERENCE: 38-21(10551) RLE3 Pyridine Tolerance
CURRENT APPLICATION NUMBER: US/09/264,737A
FILING DATE: 1999-03-09
EARLIER APPLICATION NUMBER: 60/077,377
EARLIER FILING DATE: 1998-03-10

NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 55
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: amino terminal degenerate synthetic amplification
OTHER INFORMATION: primer based on published amino acid sequence of
OTHER INFORMATION: rabbit liver esterase isozyme 1 (RLE1 (Ozols, 1987));
US-09-264-737-4

Query Match 0.8%; Score 19.4; DB 3; Length 55;
Best Local Similarity 65.7%; Pred. No. 2.8e+04;
Matches 23; Conservative 2; Mismatches 10; Indels 0; Gaps 0;

QY 1270 GCTCCATCTGACTTGAAAGTGGAAGAAAGTT 1304
DB 21 GCACCACCTGTGTGACACTGTNAAAGGNARGT 55

RESULT 86
US-08-592-406-9/c
Sequence 9, Application US/08592406
Patent No. 5821059
GENERAL INFORMATION:
APPLICANT: MINION, F. Chris
APPLICANT: KNUDSON, Kevin L.
TITLE OF INVENTION: MYOPLASMA EXPRESSION SYSTEM
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592.406
FILING DATE: 06-FEB-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US93/07407
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 76645/132
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-592-406-9

Query Match 0.8%; Score 19.4; DB 1; Length 60;
Best Local Similarity 60.4%; Pred. No. 3e+04;
Matches 33; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1799 AATGATATGCTGAAGCTTGGACATCAATTAATGATTCCTGGACATC 1851
DB 59 ATTGTATCTCAACACTTCGGGTATATATATATCATCATGATCAATACATC 7

RESULT 87
US-08-741-881-44
Sequence 44, Application US/08741881
Patent No. 5789245
GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John M.
APPLICANT: Ibanez, Carlos E.
APPLICANT: Chang, Stephen M.W.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/741,881
FILING DATE: 30-OCT-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Mcmasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.42306 / 1146.007
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-741-881-44

Query Match 0.8%; Score 19.2; DB 1; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATAGATTTTGATT 2152
DB 1 TATATATAGATCTTGACATGATTAATGACT 32

RESULT 88
US-08-739-158-44
Sequence 44, Application US/08739158
Patent No. 581482
GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John M.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: US

ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/739,158
FILING DATE: 30-OCT-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McMaister, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.423D3 / 1146.012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-739-158-44

Query Match 0.8%; Score 19.2; DB 1; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATGATTTTGATT 2152
DB 1 TATATATAGATCTTGACATGATTAATGACT 32

RESULT 89
US-08-739-167-44
Sequence 44, Application US/08739167
Patent No. 5843723
GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John W.
APPLICANT: Ibanez, Carlos E.
APPLICANT: Chang, Stephen M.W.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
APPLICANT: Belli, Barbara A.
TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS AND ALPHAVIRUS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/739,167
FILING DATE: 30-OCT-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McMaister, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.423C7 / 1146.008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:

LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-739-167-44

Query Match 0.8%; Score 19.2; DB 2; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATGATTTTGATT 2152
DB 1 TATATATAGATCTTGACATGATTAATGACT 32

RESULT 90
US-08-404-796-44
Sequence 44, Application US/08404796
Patent No. 6015686
GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John W.
APPLICANT: Ibanez, Carlos E.
APPLICANT: Chang, Stephen M.W.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
APPLICANT: Belli, Barbara A.
TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/404,796
FILING DATE: 15-MAR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McMaister, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.423C5 / 1146.006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-404-796-44

Query Match 0.8%; Score 19.2; DB 3; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATGATTTTGATT 2152
DB 1 TATATATAGATCTTGACATGATTAATGACT 32

RESULT 91
US-08-931-869-44
Sequence 44, Application US/08931869
Patent No. 6015694

GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John M.
APPLICANT: Ibanez, Carlos E.
APPLICANT: Chang, Stephen M.W.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
APPLICANT: Belli, Barbara A.
TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,869
FILING DATE: 16-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/404,796
FILING DATE: 15-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: McMasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.423C5 / 1146.006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-931-869-44

Query Match 0.8%; Score 19.2; DB 3; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATAGATTGATT 2152
DB 1 TATATATGATCTTTGACATGATTATTGACT 32

RESULT 92
US-09-350-399-44
Sequence 44, Application US/09350399
Patent No. 6342372
GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John M.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
TITLE OF INVENTION: EUKARYOTIC LAYERED VECTOR INITIATION SYSTEMS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/350,399
FILING DATE: 08-Jul-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: McMasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.423D1 / 1146.010
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 44:
US-09-350-399-44

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATAGATTGATT 2152
DB 1 TATATATGATCTTTGACATGATTATTGACT 32

RESULT 93
US-09-236-140A-44
Sequence 44, Application US/09236140A
Patent No. 6376236
GENERAL INFORMATION:
APPLICANT: Dubensky Jr, Thomas W
APPLICANT: Polo, John M.
APPLICANT: Ibanez, Carlos E.
APPLICANT: Chang, Stephen M.W.
APPLICANT: Jolly, Douglas J.
APPLICANT: Driver, David A.
APPLICANT: Belli, Barbara A.
TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS PARTICLES
NUMBER OF SEQUENCES: 124
CORRESPONDENCE ADDRESS:
ADDRESSEE: OPPENHEIMER WOLFF & DONNELLY
STREET: 840 NEWPORT CENTER DRIVE, SUITE 700
CITY: NEWPORT BEACH
STATE: CALIFORNIA
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/236,140A
FILING DATE: 22-Jan-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Cullman, Louis C.
REGISTRATION NUMBER: 39,645
REFERENCE/DOCKET NUMBER: 20263.332 / 1146.020
TELECOMMUNICATION INFORMATION:
TELEPHONE: (949) 823.6000
TELEFAX: (949) 823.6100
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 44;
US-09-236-140A-44

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATAGATTGATT 2152
DB 1 TATATATAGATCTTGACATTGATTGACT 32

RESULT 94
US-09-415-784-41
Sequence 41, Application US/09415784
Patent No. 6391632
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
Polo, John M.
Belli, Barbara A.
Schlesinger, Sondra
Dryga, Sergey A.
Frolov, Ilya

TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
SYNTHESIS

NUMBER OF SEQUENCES: 125
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/415,784
FILING DATE: 08-Oct-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457D1 /1196.006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 41;
US-09-415-784-41

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATAGATTGATT 2152
DB 1 TATATATAGATCTTGACATTGATTGACT 32

RESULT 95
US-09-415-785A-41
Sequence 41, Application US/09415785A

Patent No. 6426196
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
Polo, John M.
Belli, Barbara A.
Schlesinger, Sondra
Dryga, Sergey A.
Frolov, Ilya

TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
SYNTHESIS

NUMBER OF SEQUENCES: 125
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/415,785A
FILING DATE: 08-Oct-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457D1 /1196.006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 41;
US-09-415-785A-41

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2121 TAAATATATATTTTCAATAGATTGATT 2152
DB 1 TATATATAGATCTTGACATTGATTGACT 32

RESULT 96
US-08-944-465-41
Sequence 41, Application US/08944465
Patent No. 6451592
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
Polo, John M.
Belli, Barbara A.
Schlesinger, Sondra
Dryga, Sergey A.
Frolov, Ilya

TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
SYNTHESIS

NUMBER OF SEQUENCES: 125
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington

COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,465
FILING DATE: 06-Oct-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457C4 / 1196.005
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-944-465-41

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2121 TAAATATATATTTTCAATAGATTGATT 2152
Db 1 TATATATAGATCTTGACATTGATTATGACT 32

RESULT 97
US-09-415-868-41
Sequence 41, Application US/09415868
Patent No. 6458560
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
APPLICANT: Polo, John M.
APPLICANT: Belli, Barbara A.
APPLICANT: Schlesinger, Sondra
APPLICANT: Dryga, Sergey A.
APPLICANT: Frolov, Ilya
TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
TITLE OF INVENTION: WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
NUMBER OF SEQUENCES: 125
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/415,868
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/944,465
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457C4 / 1196.005

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-415-868-41

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2121 TAAATATATATTTTCAATAGATTGATT 2152
Db 1 TATATATAGATCTTGACATTGATTATGACT 32

RESULT 98
US-09-415-900-41
Sequence 41, Application US/09415900
Patent No. 6465634
GENERAL INFORMATION:
APPLICANT: Dubensky Jr., Thomas W.
APPLICANT: Polo, John M.
APPLICANT: Belli, Barbara A.
APPLICANT: Schlesinger, Sondra
APPLICANT: Dryga, Sergey A.
APPLICANT: Frolov, Ilya
TITLE OF INVENTION: RECOMBINANT ALPHAVIRUS-BASED VECTORS
TITLE OF INVENTION: WITH REDUCED INHIBITION OF CELLULAR MACRO-MOLECULAR
NUMBER OF SEQUENCES: 125
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group PLLC
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/415,900
FILING DATE: 08-Oct-1999
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.457D4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-415-900-41

Query Match 0.8%; Score 19.2; DB 4; Length 34;
Best Local Similarity 75.0%; Pred. No. 2.5e+04;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2121 TAAATATATATTTTCAATAGATTGATT 2152
Db 1 TATATATAGATCTTGACATTGATTATGACT 32

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RESULT 99
US-09-076-193-1
; Sequence 1, Application US/09076193
; Patent No. 5973231
; GENERAL INFORMATION:
; APPLICANT: Bradfisch, Gregory A.
; APPLICANT: Muller-Cohn, Judy
; APPLICANT: Narva, Kenneth E.
; APPLICANT: Fu, Jenny M.
; APPLICANT: Thompson, Mark
; TITLE OF INVENTION: Bacillus thuringiensis Isolates, Toxins, and
; TITLE OF INVENTION: Genes for Controlling Certain Coleopteran Pests
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
; STREET: 2421 NW 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: USA
; ZIP: 32606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/076,193
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanders, Jay M.
; REGISTRATION NUMBER: 39,355
; REFERENCE/DOCKET NUMBER: MA-716
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (352) 375-8100
; TELEFAX: (352) 372-5800
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 40 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-076-193-1

Query Match 0.8%; Score 19.2; DB 2; Length 40;
Best Local Similarity 60.0%; Pred. No. 2.7e+04;
Matches 24; Conservative 4; Mismatches 12; Indels 0; Gaps 0;

QY 2240 TGGTGAATATATAAATGCAATGATCATTTGTTACACA 2279
DB 1 TGGATATAAAATCATWACACATGAGAGATTATATMGACA 40

RESULT 100
US-09-605-192-4/C
; Sequence 4, Application US/09605192
; Patent No. 6323009
; GENERAL INFORMATION:
; APPLICANT: Dean, Frank B.
; APPLICANT: Laskin, Roger S.
; APPLICANT: Nelson, John
; TITLE OF INVENTION: Multiply-primed Amplification of Nucleic Acid Sequences
; FILE REFERENCE: 469290-41
; CURRENT APPLICATION NUMBER: US/09/605,192
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 40
; TYPE: DNA
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```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: primer that anneals to M13 (+)-strand DNA.
US-09-605-192-4

Query Match 0.8%; Score 19.2; DB 4; Length 40;
Best Local Similarity 67.5%; Pred. No. 2.7e+04;
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2216 CCAGACACTTCTGTTCTTCTCTTGATGAATATATAA 2255
DB 40 CCCGCTAATCTTAATCTTCTCTTGAGAAAAAAA 1

Search completed: April 19, 2003, 10:07:20
Job time : 102 secs
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93 18.8 0.8 53 9 US-10-083-168-92 Sequence 92, Appl
94 18.8 0.8 54 7 US-08-781-986A-2724 Sequence 2724, Ap
95 18.8 0.8 56 10 US-09-944-036-30 Sequence 30, Appl
96 18.8 0.8 57 7 US-08-781-986A-1941 Sequence 1941, Ap
97 18.8 0.8 57 9 US-08-981-803-29 Sequence 29, Appl
98 18.8 0.8 58 10 US-09-878-574-9023 Sequence 9023, Ap
99 18.8 0.8 59 9 US-10-007-968-8 Sequence 8, Appl
100 18.8 0.8 59 9 US-10-007-280A-2 Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-781-986A-1737
Sequence 1737, Application US/08781986A
Publication No. US2003005436A1
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5255
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,986A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Benson, Bob
REGISTRATION NUMBER: 30,446
REFERENCE/DOCKET NUMBER: PB248PP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 1737:
SEQUENCE CHARACTERISTICS:
LENGTH: 57 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-781-986A-1737
Query Match 1.0%; Score 24.2; DB 7; Length 57;
Best Local Similarity 71.1%; Pred. No. 7.4e+03;
Matches 32; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 421 AGAATGCTAAAGATACAGCTCATACAAAGACGAAATATT 465
Db 1 AAAGAAGCTAAAGAAAGTGTATTAACGCAAAAGTATTATT 45

RESULT 2
US-09-922-261-231
Sequence 231, Application US/09922261
Patent No. US2002011471A1
GENERAL INFORMATION:
APPLICANT: COSENT NEUROSCIENCE, Inc.
APPLICANT: Lo, Donald C.
APPLICANT: Barney, Shawn
APPLICANT: Thomas, Mary Beth

APPLICANT: Portbury, Stuart D.
APPLICANT: Putnam, Kasturi
APPLICANT: Katz, Lawrence C.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING
TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING
TITLE OF INVENTION: CELL DEATH
FILE REFERENCE: 10001-005-999
CURRENT APPLICATION NUMBER: US/09/922,261
CURRENT FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: US/09/461,697
PRIOR FILING DATE: 1999-12-14
NUMBER OF SEQ ID NOS: 466
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 231
LENGTH: 60
TYPE: DNA
ORGANISM: Homo sapiens
US-09-922-261-231
Query Match 1.0%; Score 23.6; DB 10; Length 60;
Best Local Similarity 64.8%; Pred. No. 1.1e+04;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1635 AAAAGGTGAGAGGAGATGTGTGACATCTTGCAAGTGAACAGACTCAA 1688
Db 7 AAGAAGATGAAGGTGAAATGAGAGAAAGAGCTGCAAAAGAAAGATTTAA 60

RESULT 3
US-09-925-301-758/C
Sequence 758, Application US/09925301
Patent No. US20020052308A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA106
CURRENT APPLICATION NUMBER: US/09/925,301
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1694
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 758
LENGTH: 60
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (36)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (38)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (40)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (45)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (46)
OTHER INFORMATION: n equals a,t,g, or c
US-09-925-301-758
Query Match 1.0%; Score 22.8; DB 10; Length 60;
Best Local Similarity 63.8%; Pred. No. 1.8e+04;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1756 TTTTAAATCAATCATGTGTGCAAAAAAATTAAAGCAAAATTA 1802
Db 56 TTTTAAAAAANNAANNAANNAANNAANNAANNAANNAANNAANNA 10

RESULT 4

US-10-033-297-162
 ; Sequence 162, Application US/10033297
 ; Publication No. US20020187486A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hall, Jeff G.
 ; Maest, Andrea L.
 ; Lyamichev, Victor I.
 ; TITLE OF INVENTION: Detection of Nucleic Acids By Multiple
 ; Sequential Invasive Cleavages
 ; NUMBER OF SEQUENCES: 163
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Medlen & Carroll, LLP
 ; STREET: 220 Montgomery Street, Suite 2200
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: United States Of America
 ; ZIP: 94104
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/10/033,297
 ; FILING DATE: 12-NOV-2002
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/350,597
 ; FILING DATE: 09-Jul-1999
 ; APPLICATION NUMBER: US/08/823,516
 ; FILING DATE: 24-MAR-1997
 ; APPLICATION NUMBER: PCT/US97/01072
 ; FILING DATE: 21-JAN-1997
 ; APPLICATION NUMBER: US 08/759,038
 ; FILING DATE: 02-DEC-1996
 ; APPLICATION NUMBER: US 08/758,314
 ; FILING DATE: 02-DEC-1996
 ; APPLICATION NUMBER: US 08/756,386
 ; FILING DATE: 29-NOV-1996
 ; APPLICATION NUMBER: US 08/682,853
 ; FILING DATE: 12-JUL-1996
 ; APPLICATION NUMBER: US 08/599,491
 ; FILING DATE: 24-JAN-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Ingolia, Diane E.
 ; REGISTRATION NUMBER: 40,027
 ; TELEPHONE: (415) 705-8410
 ; TELEFAX: (415) 397-8338
 ; INFORMATION FOR SEQ ID NO: 162:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 54 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: other nucleic acid
 ; DESCRIPTION: /desc = "DNA"
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 162:
 US-10-033-297-162

Query Match 1.0%; Score 22.6; DB 9; Length 54;
 Best Local Similarity 75.7%; Pred. No. 1.9e+04;
 Matches 28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 128 AGCCAGAGAGCGGGCTCTGAGATGAGCTGAGGA 164
 DB 4 AGGAAGAGAGAGGGGTCTCAGAGAGAGCGGAGGA 40

RESULT 5

US-09-940-244-162
 ; Sequence 162, Application US/09940244
 ; Publication No. US20030044796A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Neri, Bruce P.
 ; APPLICANT: Hall, Jeff G.
 ; APPLICANT: Lyamichev, Victor
 ; APPLICANT: Smith, Lloyd M.
 ; TITLE OF INVENTION: Reactions on Dendrimers
 ; FILE REFERENCE: FORS-06478
 ; CURRENT APPLICATION NUMBER: US/09/940,244
 ; CURRENT FILING DATE: 2002-05-06
 ; NUMBER OF SEQ ID NOS: 422
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 162
 ; LENGTH: 54
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic
 ; US-09-940-244-162

Query Match 1.0%; Score 22.6; DB 9; Length 54;
 Best Local Similarity 75.7%; Pred. No. 1.9e+04;
 Matches 28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 128 AGCCAGAGAGCGGGCTCTGAGATGAGCTGAGGA 164
 DB 4 AGGAAGAGAGAGGGGTCTCAGAGAGAGCGGAGGA 40

RESULT 6

US-09-983-965-2161
 ; Sequence 2161, Application US/09983965
 ; Patent No. US20020137160A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Warren, Wesley C.
 ; APPLICANT: Tao, Nengbing
 ; APPLICANT: Byatt, John C.
 ; APPLICANT: Mathialagan, Nagappan
 ; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
 ; FILE REFERENCE: 37-21 (10297)C
 ; CURRENT APPLICATION NUMBER: US/09/983,965
 ; CURRENT FILING DATE: 2001-10-26
 ; PRIOR APPLICATION NUMBER: US 09/465,231
 ; PRIOR FILING DATE: 1999-12-15
 ; PRIOR APPLICATION NUMBER: US 60/113,678
 ; PRIOR FILING DATE: 1998-12-17
 ; NUMBER OF SEQ ID NOS: 5912
 ; SEQ ID NO 2161
 ; LENGTH: 53
 ; TYPE: DNA
 ; ORGANISM: Bos taurus
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: 40-LIB3057-003-Q1-K1-B8
 ; US-09-983-965-2161

Query Match 1.0%; Score 22.4; DB 10; Length 53;
 Best Local Similarity 72.5%; Pred. No. 2.1e+04;
 Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1129 CCCTTAAACCTCTGTGCAATCTGAAGAGATGTAATC 1168
 DB 11 CCCTGTACACATCTTTTCAAACTGGAGGCTTCAAGTC 50

RESULT 7
 US-09-846-430A-5/C
 ; Sequence 5, Application US/09846430A
 ; Publication No. US20030049620A1

GENERAL INFORMATION:
APPLICANT: LAI, Jennifer H.
APPLICANT: PHILLIPS, Vincent
APPLICANT: MATSON, Andrew R
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYNUCLEOTIDE ANALYSIS
TITLE OF INVENTION: USING GENERIC CAPTURE SEQUENCES
FILE REFERENCE: 5100-7001 / 0016-US
CURRENT APPLICATION NUMBER: US/09/846,430A
CURRENT FILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: 60/200,635
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 39
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Cc1a-B
US-09-846-430A-5

Query Match 0.9%; Score 22; DB 9; Length 39;
Best Local Similarity 73.7%; Pred. No. 2.2e+04;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1763 AATCAATCAATGTCGCAAAATACTTAAGCAAAA 1800
DB 39 AATCACTCACTGCGCCAGCAAAATACTTAAGCAAAA 2

RESULT 8
US-08-781-986A-1690
Sequence 1690, Application US/08781986A
Publication No. US20030054436A1
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5255
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,986A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
NAME: Benson, Bob
REGISTRATION NUMBER: 30,446
REFERENCE/DOCKET NUMBER: PB248PP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 1690:
SEQUENCE CHARACTERISTICS:
LENGTH: 55 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-781-986A-1690

Query Match 0.9%; Score 21.8; DB 7; Length 55;

Best Local Similarity 70.7%; Pred. No. 3.1e+04;
Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 2174 CCAACTTTAAATGCGAATTAATGTTGTTGTAAGAAA 2214
DB 1 CCAACTTTAAATGCGAATTAATGTTGTTGTAAGAAA 41

RESULT 9
US-09-783-590-2406/C
Sequence 2406, Application US/09783590
Patent No. US20020110850A1
GENERAL INFORMATION:
APPLICANT: Dillon, Patrick J.
APPLICANT: Haseltine, William A.
APPLICANT: Li, Haodong
APPLICANT: Rosen, Craig A.
APPLICANT: Ruben, Steven M.
TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2
FILE REFERENCE: PO-16,2C1
CURRENT APPLICATION NUMBER: US/09/783,590
CURRENT FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 08/420,856
PRIOR FILING DATE: 1995-04-12
PRIOR APPLICATION NUMBER: 08/346,731
PRIOR FILING DATE: 1994-11-21
NUMBER OF SEQ ID NOS: 12485
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2406
LENGTH: 58
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (34)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc feature
LOCATION: (41)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc feature
LOCATION: (47)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc feature
LOCATION: (52)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc feature
LOCATION: (58)
OTHER INFORMATION: n equals a,t,g, or c
US-09-783-590-2406

Query Match 0.9%; Score 21.8; DB 10; Length 58;
Best Local Similarity 64.4%; Pred. No. 3.3e+04;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1758 TTAATAATCAATCAATGTCGCAAAATACTTAAGCAAAA 1802
DB 54 TTAATAATTTTAAAGGCAAAATACTTAAGCAAAA 10

RESULT 10
US-09-801-274-808
Sequence 808, Application US/09801274
Patent No. US20020032319A1
GENERAL INFORMATION:
APPLICANT: Cargill, Michele
APPLICANT: Ireland, James S.
APPLICANT: Lander, Eric S.
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
FILE REFERENCE: 2825-2009-001
CURRENT APPLICATION NUMBER: US/09/801,274
CURRENT FILING DATE: 2001-03-07
PRIOR APPLICATION NUMBER: 60/187,510
PRIOR FILING DATE: 2000-03-07

PRIOR APPLICATION NUMBER: US 60/206,129
PRIOR FILING DATE: 2000-05-22
NUMBER OF SEQ ID NOS: 1802
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 808
LENGTH: 31
TYPE: DNA
ORGANISM: Homo sapiens
US-09-801-274-808

Query Match 0.9%; Score 21.4; DB 10; Length 31;
Best Local Similarity 88.0%; Pred. No. 2.7e+04;
Matches 22; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1777 TGCAGAAAAAAGCTTAAGCAAAAT 1801
Db 6 TCCAAAAAARACTTACAGCAAAAT 30

RESULT 11
US-09-877-478-4141
Sequence 4141, Application US/09877478
Publication No. US2003068301A1
GENERAL INFORMATION:
APPLICANT: Ribozyne Pharmaceuticals, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MBH00-845-H (400/029)
CURRENT APPLICATION NUMBER: US/09/877,478
CURRENT FILING DATE: 2001-12-31
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/696,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 08/434,504
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6586
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4141
LENGTH: 37
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-09-877-478-4141

Query Match 0.9%; Score 21.2; DB 9; Length 37;
Best Local Similarity 58.8%; Pred. No. 3.5e+04;
Matches 20; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

Qy 175 TTAAATGAAGCATGACCATGGGGGGGTTGGAC 208
Db 4 UUGAUGAUGGCAUGGCAUGGCGGAGUAGGAC 37

RESULT 12
US-09-764-860-203
Sequence 203, Application US/09764860
Patent No. US20020094953A1
GENERAL INFORMATION:

APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC008
CURRENT APPLICATION NUMBER: US/09/764,860
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1198
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 203
LENGTH: 58
TYPE: DNA
ORGANISM: Homo sapiens
US-09-764-860-203

Query Match 0.9%; Score 21.2; DB 10; Length 58;
Best Local Similarity 64.0%; Pred. No. 4.7e+04;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 2089 TACGTGCAACACCTGATCTTTTATATATATATATTTTCA 2138
Db 8 TATTTCAACATAGGAACCTTTTATTTTATTTTAAATTTTA 57

RESULT 13
US-10-013-737-17
Sequence 17, Application US/10013737
Patent No. US20020115093A1
GENERAL INFORMATION:
APPLICANT: Reynolds, Mark A.
APPLICANT: Ruvoide, Michael
APPLICANT: Arnold, Jr., Lyle J.
TITLE OF INVENTION: COMBINED POLYNUCLEOTIDE SEQUENCES AS DISCRETE ASSAY
FILE REFERENCE: IN-0017 US
CURRENT APPLICATION NUMBER: US/10/013,737
CURRENT FILING DATE: 2001-11-12
PRIOR APPLICATION NUMBER: US/09/532,656
PRIOR FILING DATE: 2000-03-20
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PERL Program
SEQ ID NO 17
LENGTH: 59
TYPE: DNA
ORGANISM: Candida albicans
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US20020115093A1 F23S805
US-10-013-737-17

Query Match 0.9%; Score 21; DB 12; Length 59;
Best Local Similarity 66.7%; Pred. No. 5.4e+04;
Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1078 TTCTTAGACATTAAGTGAAGAACTTCTGCTGAAAGGTG 1122
Db 5 TTCTTAGGACATTAAGAAAGAAAGAACTGTTTGAAGTGTG 49

RESULT 14
US-09-798-675-21
Sequence 21, Application US/09798675
Patent No. US20020106798A1
GENERAL INFORMATION:
APPLICANT: Emory University
TITLE OF INVENTION: HIV VACCINES
FILE REFERENCE: E056 2020
CURRENT APPLICATION NUMBER: US/09/798,675
CURRENT FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: US 60/186,364
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/251,083
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 24

SOFTWARE: PatentIn version 3.0
SEQ ID NO 21
LENGTH: 40
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: E478Q RTS primer
US-09-798-675-21

Query Match 0.9%; Score 20.8; DB 10; Length 40;
Best Local Similarity 70.0%; Pred. No. 4.7e+04;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 967 CCTTACCTCACAAGAGCCAGAGATGCTTAAAAAGC 1006
Db 1 CCTTACTACACAAACAAATCAGAAAACTCAGTTACAAGC 40

RESULT 15
US-09-798-675-22/c
Sequence 22, Application US/09798675
Patent No. US20020106798A1
GENERAL INFORMATION:
APPLICANT: Emory University
TITLE OF INVENTION: HIV VACCINES
FILE REFERENCE: E056 2020
CURRENT APPLICATION NUMBER: US/09/798,675
CURRENT FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: US 60/186,364
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/251,083
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.0
SEQ ID NO 22
LENGTH: 40
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: E478Q RT6 primer
US-09-798-675-22

Query Match 0.9%; Score 20.8; DB 10; Length 40;
Best Local Similarity 70.0%; Pred. No. 4.7e+04;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 967 CCTTACCTCACAAGAGCCAGAGATGCTTAAAAAGC 1006
Db 40 CCTTACTACACAAACAAATCAGAAAACTCAGTTACAAGC 1

RESULT 16
US-09-377-885A-34
Sequence 34, Application US/09377885A
Publication No. US20030050258A1
GENERAL INFORMATION:
APPLICANT: Calos, Michele P.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR GENOMIC MODIFICATION
FILE REFERENCE: STAN-301
CURRENT APPLICATION NUMBER: US/09/377,885A
CURRENT FILING DATE: 2003-02-07
PRIOR APPLICATION NUMBER: 60/097,166
PRIOR FILING DATE: 1998-08-19
NUMBER OF SEQ ID NOS: 41
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 34
LENGTH: 34
TYPE: DNA
ORGANISM: Mus sp.
US-09-377-885A-34

Query Match 0.9%; Score 20.6; DB 9; Length 34;
Best Local Similarity 85.2%; Pred. No. 4.7e+04;

Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 2107 ATCTTTTATTAATAATATATTT 2133
Db 6 ATATTATTTTATTAATATATTT 32

RESULT 17
US-09-931-325A-72/c
Sequence 72, Application US/09931325A
Publication No. US20030054337A1
GENERAL INFORMATION:
APPLICANT: Birkett, Ashley J.
TITLE OF INVENTION: MALARIA IMMUNOGEN AND VACCINE
FILE REFERENCE: 4564/83503 ICC-103.1
CURRENT APPLICATION NUMBER: US/09/931,325A
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/225,843
PRIOR FILING DATE: 2000-08-16
PRIOR APPLICATION NUMBER: USN NOT YET ASSIGND
PRIOR FILING DATE: 2001-08-15
NUMBER OF SEQ ID NOS: 186
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 72
LENGTH: 49
TYPE: DNA
ORGANISM: Plasmodium falciparum
US-09-931-325A-72

Query Match 0.9%; Score 20.6; DB 9; Length 49;
Best Local Similarity 67.4%; Pred. No. 6e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 423 AATGCTAAGATACAGCTCATCAAAAGCAGCAATATT 465
Db 44 AATGCCACCTTACCTTACCTTACCAAGCCAAACCGAATGTT 2

RESULT 18
US-09-983-965-452
Sequence 452, Application US/09983965
Patent No. US20020137160A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengbing
APPLICANT: Byatt, John C.
APPLICANT: Mathaiagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 37-21(10297)C
CURRENT APPLICATION NUMBER: US/09/983,965
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: US 09/465,231
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: US 60/113,678
PRIOR FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 5912
SEQ ID NO 452
LENGTH: 54
TYPE: DNA
ORGANISM: Bos taurus
FEATURE:
OTHER INFORMATION: Clone ID: 53-BOVMS1-015-Q1-E1-F10
US-09-983-965-452

Query Match 0.9%; Score 20.6; DB 10; Length 54;
Best Local Similarity 67.4%; Pred. No. 6.5e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 1760 AAAAAATCATCATGTGCAAAAAAACTTAAGCAATA 1802
Db 1 AAAAAAAGAAAAAAGAAAAAATTAATAAAAAA 43

```
RESULT 19
; US-09-931-325A-63/c
; Sequence 63, Application US/09911325A
; Publication No. US20030054337A1
; GENERAL INFORMATION:
; APPLICANT: Birkett, Ashley J.
; TITLE OF INVENTION: MALARIA IMMUNOGEN AND VACCINE
; FILE REFERENCE: 4564/83503 ICC-103.1
; CURRENT APPLICATION NUMBER: US/09/931.325A
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/225,843
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US/09/931.325A
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 63
; LENGTH: 55
; TYPE: DNA
; ORGANISM: Plasmodium falciparum
; US-09-931-325A-63

Query Match      0.9%; Score 20.6; DB 9; Length 55;
Best Local Similarity 67.4%; Pred. No. 6.5e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 423 AATGCTAAGATACAGCTCATACAAAGCAAGCAAGCAATATT 465
DB 44 AATGCCAACCTTACCGTATATCCAAAGCCAAACCCGAATGTT 2

RESULT 20
; US-09-931-325A-75/c
; Sequence 75, Application US/09911325A
; Publication No. US20030054337A1
; GENERAL INFORMATION:
; APPLICANT: Birkett, Ashley J.
; TITLE OF INVENTION: MALARIA IMMUNOGEN AND VACCINE
; FILE REFERENCE: 4564/83503 ICC-103.1
; CURRENT APPLICATION NUMBER: US/09/931.325A
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/225,843
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US/09/931.325A
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 75
; LENGTH: 55
; TYPE: DNA
; ORGANISM: Plasmodium falciparum
; US-09-931-325A-75

Query Match      0.9%; Score 20.6; DB 9; Length 55;
Best Local Similarity 67.4%; Pred. No. 6.5e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 423 AATGCTAAGATACAGCTCATACAAAGCAAGCAAGCAATATT 465
DB 50 AATGCCAACCTTACCGTATATCCAAAGCCAAACCCGAATGTT 8

RESULT 21
; US-09-931-325A-71
; Sequence 71, Application US/09911325A
; Publication No. US20030054337A1
; GENERAL INFORMATION:
; APPLICANT: Birkett, Ashley J.
; TITLE OF INVENTION: MALARIA IMMUNOGEN AND VACCINE
; FILE REFERENCE: 4564/83503 ICC-103.1
; CURRENT APPLICATION NUMBER: US/09/931.325A
; CURRENT FILING DATE: 2002-02-22
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; PRIOR APPLICATION NUMBER: 60/225,843
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: USSN NOT YET ASSIGNED
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 71
; LENGTH: 57
; TYPE: DNA
; ORGANISM: Plasmodium falciparum
; US-09-931-325A-71

Query Match      0.9%; Score 20.6; DB 9; Length 57;
Best Local Similarity 67.4%; Pred. No. 6.7e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 423 AATGCTAAGATACAGCTCATACAAAGCAAGCAAGCAATATT 465
DB 10 AATGCCAACCTTACCGTATATCCAAAGCCAAACCCGAATGTT 52

RESULT 22
; US-08-781-986A-5031
; Sequence 5031, Application US/08781986A
; Publication No. US20030054436A1
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5255
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/781,986A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Benson, Bob
; REGISTRATION NUMBER: 30,446
; REFERENCE/DOCKET NUMBER: PB248PP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 5031:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 54 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-781-986A-5031

Query Match      0.9%; Score 20.2; DB 7; Length 54;
Best Local Similarity 75.8%; Pred. No. 8.3e+04;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2106 AATCTTTTATATATATATATATATTTTCAA 2138
DB 11 AATCTATTTTACTTACTTACTTACTTTTCAA 43

RESULT 23
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US-09-853-526-315
Sequence 315, Application US/09853526
Patent No. US20020165345A1
GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
APPLICANT: Blumentfeld, Marta
APPLICANT: Ilva, Chumakov
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: PROSTATE CANCER GENE
FILE REFERENCE: GENSET.18CPLC
CURRENT APPLICATION NUMBER: US/09/853,526
CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 09/338,907
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 08/996,306
PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: 60/099,658
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 09/218,207
PRIOR FILING DATE: 1998-12-22
NUMBER OF SEQ ID NOS: 578
SOFTWARE: Patent.pm
SEQ ID NO 315
LENGTH: 47
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: allele
LOCATION: 1..47
OTHER INFORMATION: polymorphic fragment 99-147-181, variant version of SEQ ID238
NAME/KEY: allele
LOCATION: 24
OTHER INFORMATION: base G ; A in SEQ ID238
NAME/KEY: primer_bind
LOCATION: 1..23
OTHER INFORMATION: potential microsequencing oligo 99-147-181.mis1
NAME/KEY: primer_bind
LOCATION: 25..47
OTHER INFORMATION: complement potential microsequencing oligo 99-147-181.mis2
US-09-853-526-315

Query Match 0.9%; Score 20; DB 9; Length 47;
Match Local Similarity 72.2%; Pred. No. 8.5e+04;
Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 397 GTGCTTAAAAAGGCATGATAGTAGAAGAAATGCTPAA 432
Db 3 GTCATGAAAAAGAGCATGATAGAGAAAGAAACTTAA 38

RESULT 24
US-09-901-484A-315
Sequence 315, Application US/09901484A
Patent No. US20020119460A1
GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
APPLICANT: Blumentfeld, Marta
APPLICANT: Chumakov, Ilva
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Prostate Cancer Gene
FILE REFERENCE: GEN-T11XC3D2
CURRENT APPLICATION NUMBER: US/09/901,484A
CURRENT FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 08/996,306
PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: US 60/099,658
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: US 09/218,207
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: US 09/338,907
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: US 09/853,526
PRIOR FILING DATE: 2001-05-11

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: NUMBER OF SEQ ID NOS: 578
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 315
: LENGTH: 47
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: allele
: LOCATION: (1)..(47)
: OTHER INFORMATION: polymorphic fragment 99-147-181, variant version of SEQ ID 238
: NAME/KEY: allele
: LOCATION: (24)..(24)
: OTHER INFORMATION: polymorphic base G, A in SEQ ID 238
: NAME/KEY: primer bind
: LOCATION: (1)..(23)
: OTHER INFORMATION: potential microsequencing oligo 99-147-181.misl
: NAME/KEY: primer bind
: LOCATION: (25)..(47)
: OTHER INFORMATION: complement potential microsequencing oligo 99-147-181.mis2
US-09-901-484A-315

Query Match          0.9%; Score 20; DB 10; Length 47;
Best Local Similarity 72.2%; Pred. No. 8.5e+04;
Matches 26; Conservative 0; Mismatches 10; Gaps 0;

Cy 397 GTGCTTAAAGGCAATGATGTAAGAAATCTTAA 432
      ||||||| ||||||| ||||||| |||
Db 3 GTCATGAAAAAGCGATGATGAAAGAAAACTTAA 38

RESULT 25
US-10-085-906-261
: Sequence 261, Application US/10085906
: Publication No. US20030054371A1
: GENERAL INFORMATION:
: APPLICANT: Ying, Vincent
: APPLICANT: Wu, Paul
: APPLICANT: Gray, Gary S.
: TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE
: FILE OF INVENTION: COSTIMULATORY RECEPTOR LOCUS AND USES THEREOF
: FILE REFERENCE: GNN-5343CP2
: CURRENT APPLICATION NUMBER: US/10/085,906
: CURRENT FILING DATE: 2002-02-27
: PRIOR APPLICATION NUMBER: US 60/126,215
: PRIOR FILING DATE: 1999-03-25
: PRIOR APPLICATION NUMBER: US 09/534,061
: PRIOR FILING DATE: 2000-03-24
: PRIOR APPLICATION NUMBER: PCT/US00/07938
: PRIOR FILING DATE: 2000-03-24
: NUMBER OF SEQ ID NOS: 545
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 261
: LENGTH: 49
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-085-906-261

Query Match          0.9%; Score 20; DB 9; Length 49;
Best Local Similarity 65.9%; Pred. No. 8.7e+04;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Cy 211 TTTTATTAATAATATATATTTTCAATGATTTTGATTC 2154
      ||||||| ||||||| ||||||| |||
Db 3 TTTATTTATTTATTTATTTATTTATTTATTTATTTATTTA 46

RESULT 26
US-08-781-986A-2757/C
: Sequence 2757, Application US/08781986A
: Publication No. US20030054436A1
: GENERAL INFORMATION:
: APPLICANT: Charles Kunsch
: TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences

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Query Match	0.98; Score 20; DB 10; Length 56;
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US-10-046-935-335

Best Local Similarity 65.9%; Pred. No. 1e+05;

Best Local Similarity 58.3%; Pred. No. 1e+05; Indels 0; Gaps 0;
Matches 35; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1741 AAAAATAACGTGATTTTAAATCATCATGTCGCAAAAAAAGCTTAAGCAAAA 1800
Db 1 AA 60

RESULT 34

US-09-922-261-233
; Sequence 233, Application US/09922261
; Patent No. US2002011471A1
; GENERAL INFORMATION:
; APPLICANT: COGENT NEUROSCIENCE, Inc.
; APPLICANT: Lo, Donald C.
; APPLICANT: Barney, Shawn
; APPLICANT: Thomas, Mary Beth
; APPLICANT: Portbury, Stuart D.
; APPLICANT: Putnam, Kassturi
; APPLICANT: Katz, Lawrence C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING
; TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING
; TITLE OF INVENTION: CELL DEATH
; FILE REFERENCE: 10001-005-999
; CURRENT APPLICATION NUMBER: US/09/922,261
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US/09/461,697
; PRIOR FILING DATE: 1999-12-14
; NUMBER OF SEQ ID NOS: 466
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 233
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-261-233

Query Match 0.8%; Score 19.8; DB 10; Length 48;
Best Local Similarity 63.8%; Pred. No. 9.7e+04;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1642 TGGAGAGGAGATGTGAGCATCTCTGCAAGTGAACAAAGACTCAA 1688
Db 2 TGAAGGTGAATGAGAGAGAGCTGAGAAAAGAGAAAGAGATTAA 48

RESULT 35

US-09-866-925-129/C
; Sequence 129, Application US/09866925
; Publication No. US2003003965A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.
; TITLE OF INVENTION: ALGORITHMIC DETERMINATION OF FLANKING DNA SEQUENCES THAT
; TITLE OF INVENTION: CONTROL THE EXPRESSION OF SETS OF GENES IN PROKARYOTIC,
; TITLE OF INVENTION: ARCHAEA AND EUKARYOTIC GENOMES
; FILE REFERENCE: 3124-Z
; CURRENT APPLICATION NUMBER: US/09/866,925
; CURRENT FILING DATE: 2001-05-30
; NUMBER OF SEQ ID NOS: 249
; SOFTWARE: Proprietary
; SEQ ID NO 129
; LENGTH: 55
; TYPE: DNA
; ORGANISM: A. Thaliana
; FEATURE:
; LOCATION: (499376) ... (499430)
; OTHER INFORMATION: Chromosome = 2 Strand = positive ConnectionObjectNumber = 430
US-09-866-925-129

Query Match 0.8%; Score 19.8; DB 9; Length 55;
Best Local Similarity 63.8%; Pred. No. 1.1e+05;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 2089 TACGTGCAAAACCTGAATCTTTTATATATATATATATATTTT 2135

Db 54 TATCGCAAAAACCTTAATTTTATATATATGATGATATATTTT 8

RESULT 36

US-10-085-906-282/C
; Sequence 282, Application US/10085906
; Publication No. US20030054371A1
; GENERAL INFORMATION:
; APPLICANT: Ying, Vincent
; APPLICANT: Wu, Paul
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE
; TITLE OF INVENTION: COSTIMULATORY RECEPTOR LOCUS AND USES THEREOF
; FILE REFERENCE: GNN-5343CP2
; CURRENT APPLICATION NUMBER: US/10/085,906
; CURRENT FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: US 60/126,215
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 09/534,061
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: PCT/US00/07938
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 545
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 282
; LENGTH: 59
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-906-282

Query Match 0.8%; Score 19.8; DB 9; Length 59;
Best Local Similarity 60.0%; Pred. No. 1.1e+05;
Matches 33; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 420 AAGAAATGCTAAAGATRCAGCTCATACAAAGCAGAAACGAAATATTCTGAGGAA 474
Db 58 AAGAAAAAGAGAGAGACAGAGAGGAGGAAAAAGTGAATAAATGAGATGAGGAA 4

RESULT 37

US-09-232-785-363/C
; Sequence 363, Application US/09232785
; Publication No. US20030049612A1
; GENERAL INFORMATION:
; APPLICANT: International Paper Co.
; APPLICANT: Reht, Craig S.
; APPLICANT: Nelson, C. Dana
; TITLE OF INVENTION: MICROSCALE DNA MARKERS AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 4481/1818US1
; CURRENT APPLICATION NUMBER: US/09/232,785
; CURRENT FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: 09/232,884
; PRIOR FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 397
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 363
; LENGTH: 44
; TYPE: DNA
; ORGANISM: Pinus taeda L.
US-09-232-785-363

Query Match 0.8%; Score 19.6; DB 9; Length 44;
Best Local Similarity 66.7%; Pred. No. 1e+05;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 2111 TTTTATATATATATATATATTTTCAATAGATTTTGATT 2152
Db 43 TTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATT 2

RESULT 38

US-09-827-289-22/c
; Sequence 22, Application US/09827289
; Patent No. US20020009716A1
; GENERAL INFORMATION:
; APPLICANT: Abazua, Patricia
; TITLE OF INVENTION: Process for Allele Discrimination Using Primer
; FILE REFERENCE: 469290-55
; CURRENT APPLICATION NUMBER: US/09/827,289
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: U.S. 60/194843
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
; LENGTH: 46
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: P1 primer for
US-09-827-289-22
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Query Match 0.8%; Score 19.6; DB 10; Length 46;
Best Local Similarity 66.7%; Pred. No. 1.1e+05;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 913 GAGATAGAAAGAAACATTGACAAATCCTCAATGTAA 954
Db 45 GAGATAGAAAGAAAGAAAAAAGAAAAAAGAAAAA 4

RESULT 39
US-09-827-289-26/c
; Sequence 26, Application US/09827289
; Patent No. US20020009716A1
; GENERAL INFORMATION:
; APPLICANT: Abazua, Patricia
; TITLE OF INVENTION: Process for Allele Discrimination Using Primer
; FILE REFERENCE: 469290-55
; CURRENT APPLICATION NUMBER: US/09/827,289
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: U.S. 60/194843
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 46
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: P1 primer for
US-09-827-289-26

Query Match 0.8%; Score 19.6; DB 10; Length 46;
Best Local Similarity 66.7%; Pred. No. 1.1e+05;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 913 GAGATAGAAAGAAACATTGACAAATCCTCAATGTAA 954
Db 45 GAGATAGAAAGAAAGAAAAAAGAAAAAAGAAAAA 4

RESULT 40
US-09-938-842A-3026/c
; Sequence 3026, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kieps, Joel
; APPLICANT: Wang, Xun

; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 3026
; LENGTH: 53
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-3026

Query Match 0.8%; Score 19.6; DB 9; Length 53;
Best Local Similarity 66.7%; Pred. No. 1.2e+05;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 562 GAATCTATTATGACATTGAGAAAGAGGGAATTTTGAA 603
Db 44 GAATCATTATGATGTGGTAGAAAGAAATTAATAGAA 3

RESULT 41
US-10-046-935-2169/c
; Sequence 2169, Application US/10046935
; Patent No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527c1
; CURRENT APPLICATION NUMBER: US/10/046,935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2169
; LENGTH: 57
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 13
; OTHER INFORMATION: n = A,T,C or G
US-10-046-935-2169

Query Match 0.8%; Score 19.6; DB 9; Length 57;
Best Local Similarity 65.1%; Pred. No. 1.2e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1760 AAAAAATCAATCAATGTCGAAAAAACTTAAGCAATA 1802
Db 54 AAAAAAGAAAAAGGAAAAAAGAAAAAAGAAAAA 12

RESULT 42
US-09-878-178-2169/c
; Sequence 2169, Application US/09878178
; Patent No. US20020177552A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527
CURRENT APPLICATION NUMBER: US/09/878,178
CURRENT FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 2237
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2169
LENGTH: 57
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(57)
OTHER INFORMATION: n = A,T,C or G
US-09-878-178-2169

Query Match
Best Local Similarity 65.1%; Score 19.6; DB 9; Length 57;
Pred. No. 1.2e+05; Indels 0; Gaps 0;
Matches 28; Conservative 0; Mismatches 15;

Db 1760 AAAAAATCATCATGTCGCAAAAAAACTTAAGCAATA 1802
54 AAAAAAAAAAAAAAAAAAGGAAAAAAAAAAAAAAAAAGNA 12

RESULT 43
US-10-127-427-7/c
Sequence 7, Application US/10127427
Publication No. US20030051275A1
GENERAL INFORMATION:
APPLICANT: Paul CHRISTOU; Eva STROGER; Rainer FISCHER; Carmen MARTIN-VAQUERO;
Stefan SC
TITLE OF INVENTION: METHODS AND MEANS FOR EXPRESSION OF MAMMALIAN
POLYPEPTIDES
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.25 inch, 1.44mb
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/127,427
FILING DATE: 23-Apr-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/333,527
FILING DATE: <Unknown>
APPLICATION NUMBER: 60/089,322
FILING DATE: June 15, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Mary Anne Schofield
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: KL/JIC 202.1 - JEL
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 57
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-127-427-7

Query Match
Best Local Similarity 66.7%; Score 19.6; DB 9; Length 57;
Pred. No. 1.2e+05; Indels 0; Gaps 0;
Matches 28; Conservative 0; Mismatches 14;

Db 2110 TTTTATATATATATATATTTTCAATAGATTTTGCAT 2151
50 TTTTATATATATATATATTTTCAATAGATTTTGT 9

RESULT 44
US-10-146-502-2169/c
Sequence 2169, Application US/10146502
Publication No. US20030069180A1
GENERAL INFORMATION:
APPLICANT: Jhang, Yugu
APPLICANT: Harlocker, Susan L.
APPLICANT: Secrist, Heather
APPLICANT: Wang, Aijun
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527C2
CURRENT APPLICATION NUMBER: US/10/146,502
CURRENT FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 2241
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2169
LENGTH: 57
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 13
OTHER INFORMATION: n = A,T,C or G
US-10-146-502-2169

Query Match
Best Local Similarity 65.1%; Score 19.6; DB 9; Length 57;
Pred. No. 1.2e+05; Indels 0; Gaps 0;
Matches 28; Conservative 0; Mismatches 15;

Db 1760 AAAAAATCATCATGTCGCAAAAAAACTTAAGCAATA 1802
54 AAAAAAAAAAAAAAAAAAGGAAAAAAAAAAAAAAAAAGNA 12

RESULT 45
US-09-333-527-7/c
Sequence 7, Application US/09333527
Patent No. US20020078472A1
GENERAL INFORMATION:
APPLICANT: Paul CHRISTOU; Eva STROGER; Rainer FISCHER; Carmen MARTIN-VAQUERO; Stefa
TITLE OF INVENTION: METHODS AND MEANS FOR EXPRESSION OF MAMMALIAN POLYPEPTIDES
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.25 inch, 1.44mb
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/333,527
FILING DATE: Concurrently Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/089,322
FILING DATE: June 15, 1998
ATTORNEY/AGENT INFORMATION:

```

: NAME: Mary Anne Schofield
: REGISTRATION NUMBER: 36,669
: REFERENCE/DOCKET NUMBER: KL/JIC 202.1 - JEL
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 318-3000
: TELEFAX: (212) 752-5958
: INFORMATION FOR SEQ ID NO: 7:
: SEQUENCE CHARACTERISTICS:
:     LENGTH: 57
:     TYPE: nucleic acid
:     STRANDEDNESS: single
:     TOPOLOGY: linear
:
: US-09-333-527-7

```

Query Match	0.8%	Score 19.6;	DB 10;	Length 57;
Best Local Similarity	66.7%;	Pred. No. 1.2e+05;		
Matches	28;	Conservative	0;	Mismatches 14;
			Indels	0;
			Gaps	0;

Qy 2110 TTTTATATATAATATATATTTTCAATAGATTTTGAT 215
| | | | | | | | | | | | | | | | | | | | | |
Db 50 TTTTATATATAAATCTCTATAAATCTGATTTTGTT 9

```

RESULT 46
US-10-085-906-66
Sequence 66, Application US/10085906
Publication No. US20030054371A1
GENERAL INFORMATION:
APPLICANT: Ying, Vincent
APPLICANT: Wu, Paul
APPLICANT: Gray, Gary S.
TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE
FILE REFERENCE: GNM-5343CP2
CURRENT APPLICATION NUMBER: US/10/085,906
PRIORITY FILING DATE: 2002-02-27
PRIORITY APPLICATION NUMBER: US 60/126,215
PRIORITY FILING DATE: 1999-03-25
PRIORITY APPLICATION NUMBER: US 09/534,061
PRIORITY FILING DATE: 2000-03-24
PRIORITY APPLICATION NUMBER: PCT/US00/07938
PRIORITY FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 445
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 66
LENGTH: 54
TYPE: DNA
ORGANISM: Homo sapiens
US-10-085-906-66

```

Query Match	0.8%	Score 19.4	DB 9	Length 54
Best Local Similarity	64.4%	Pred. No. 1.3e+05		
Matches 29	Conservative	0	Mismatches 16	Indels 0
			Gaps	0

```

Oy 2108 TCTTTTTTTTATATAATATAATTTTCAATAGATTTTGATT 21522
      | | | | | | | | | | | | | | | | | | | |
Db 2 TATTTTTCGATATTTATTTATTTATTTTAAATTAATTAATT 46

```

```

RESULT 47
US-09-983-965-452/c
; Sequence 452, Application US/09983965
; Patent No. US20020137160A1
;
; GENERAL INFORMATION:
;
; APPLICANT: Warren, Wesley C.
;
; APPLICANT: Tao, Nengshy
;
; APPLICANT: Byatt, John C.
;
; APPLICANT: Mathialagan, Nagappan
;
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 37-21(10287)C
;
; CURRENT APPLICATION NUMBER: US/09/983,965
;
; CURRENT FILING DATE: 2001-10-26
;

```

```

? PRIOR APPLICATION NUMBER: US 09/465,231
? PRIOR FILING DATE: 1999-12-15
? PRIOR APPLICATION NUMBER: US 60/113,678
? PRIOR FILING DATE: 1998-12-17
? NUMBER OF SEQ ID NOS: 5912
? SEQ ID NO 452
? LENGTH: 54
? TYPE: DNA
? ORGANISM: Bos taurus
? FEATURE:
? OTHER INFORMATION: Clone ID: S3-BOWMS1-015-Q1-E1-F10
US-09-983-965-452

```

Query Match	0.8%;	Score 19.4;	DB 10;	Length 54;
Best Local Similarity	64.4%;	Pred. No. 1.3e+05;		
Matches 29;	Conservative 0;	Mismatches 16;	Indels 0;	Gaps 0;

```

QY      2108 TCTTTTATATAAATATATTTTCAATAGATTTTGGAT 2152
          ||||| | | | | | | | | | | | | | | | |
Db      47  TTTTTTTTTTTTATTTTTTTTTTCTTTTTTTTTTTTTT 3

```

```

US-09-263-959-519 RESULT 48
; Sequence 519, Application US/09263959
; Patent No. US20020150831A1
; GENERAL INFORMATION:
; APPLICANT: Hood, Leroy E.
; APPLICANT: Rowen, Lee
; APPLICANT: Koop, Ben F.
; TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTILIZE
; NUMBER OF SEQUENCES: 1279
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed and Berry LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/263,959
; FILING DATE: 05-MAR-1999
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcmasters, David D.
; REGISTRATION NUMBER: 33,963
; REFERENCE/DOCKET NUMBER: 920010.426C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO. 519:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 54 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-263-959-519

```

Query Match	0.8%	Score 19.4;	DB 10;	Length 54;
Best Local Similarity	64.4%;	Pred. No. 1.3e+05;		
Matches 29;	Conservative	0;	Mismatches 16;	Indels 0;
				Gaps 0;

```

QY      1762  A A A T C A A T C A A T G T G C A A A A A A A A A C T T A A G C A A A A T A G T A T      1806
          |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      1      A A A A T A A A A C A A A A T A A A A T A A A A T A A A A T A A A A T A A A A T A A A A T A A A A T      45

```

RESULT 49

```
US-10-046-935-335/c
; Sequence 335, Application US/10046935
; Patent No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527C1
; CURRENT APPLICATION NUMBER: US/10/046,935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 335
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 10..13
; OTHER INFORMATION: n = A,T,C or G
US-10-046-935-335.

Query Match          0.8%; Score 19.4; DB 9; Length 60;
Best Local Similarity 58.2%; Pred. No. 1.4e+05;
Matches 32; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 1756 TTTTAAATCAATCATGTCGCAAAAAAAGCTTAAGCAAAATGATTGCT 1810
Db 60 TTTTAAACCAAAAAAATATAAAAAAATAAAAAANAAAGCT 6

RESULT 50
US-09-878-178-335/c
; Sequence 335, Application US/09878178
; Patent No. US2002017552A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527
; CURRENT APPLICATION NUMBER: US/09/878,178
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 2237
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 335
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(60)
; OTHER INFORMATION: n = A,T,C or G
US-09-878-178-335.

Query Match          0.8%; Score 19.4; DB 9; Length 60;
Best Local Similarity 58.2%; Pred. No. 1.4e+05;
Matches 32; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 1756 TTTTAAATCAATCATGTCGCAAAAAAAGCTTAAGCAAAATGATTGCT 1810
Db 60 TTTTAAACCAAAAAAATATAAAAAAATAAAAAANAAAGCT 6

RESULT 51
US-10-208-155-6
; Sequence 6, Application US/10208155
; Publication No. US20030013171A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Yang et al.
; TITLE OF INVENTION: BCL-X(SYMBOL 103 \f "Symbol"), A NOVEL BCL-X
; ISOFORM, AND USES RELATED THERETO
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/208,155
; FILING DATE: 29-Jul-2002
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/899,367
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: DFN-019
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-208-155-6

Query Match          0.8%; Score 19.4; DB 9; Length 60;
Best Local Similarity 70.3%; Pred. No. 1.4e+05;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 150 GGATGACTGAGAGAGGGGCTCACTTAATGAAGC 186
Db 2 GGGTGATGTGAGCTGGGATGTCAGTCACTGAATGC 38

RESULT 52
US-10-146-502-335/c
; Sequence 335, Application US/10146502
; Publication No. US20030069180A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527C2
; CURRENT APPLICATION NUMBER: US/10/146,502
; CURRENT FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2241
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 335
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 10..13
```

OTHER INFORMATION: n = A,T,C or G
US-10-146-502-335

Query Match 0.8%; Score 19.4; DB 9; Length 60;
Best Local Similarity 58.2%; Pred. No. 1.4e+05;
Matches 32; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1756 TTTTAAATATCATCATGCTGCAAAAAAATTAAAGCAAAATGATTGCT 1810
DB 60 TTTTAAACCAAAAAAATATAAAAAATAAAAAATAAAAAATAGCT 6

RESULT 53
US-09-730-2898-2736

Sequence 2736, Application US/097302898
Publication No. US20030050259A1

GENERAL INFORMATION: Ribozyne Pharmaceuticals, Inc.
APPLICANT: Blatt, Larry

APPLICANT: McSwigen, Jim
TITLE OF INVENTION: Method and Reagent for Treatment of Cardiac Disease

FILE REFERENCE: MBH00-864-A (400/006)
CURRENT APPLICATION NUMBER: US/09/730,2898

CURRENT FILING DATE: 2000-12-05
PRIOR FILING DATE: 1999-12-06

NUMBER OF SEQ ID NOS: 3897
SOFTWARE: PatentIn version 3.0

SEQ ID NO 2736
LENGTH: 37

TYPE: RNA
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid

US-09-730-2898-2736

Query Match 0.8%; Score 19.2; DB 9; Length 37;
Best Local Similarity 56.2%; Pred. No. 1.2e+05;
Matches 18; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

QY 176 TAAATGAAGCATGACCATCGGGAGTTGGA 207
DB 5 UCAAUUGAGUGGACUAGCGGAGUGUCA 36

RESULT 54
US-09-263-959-213/C

Sequence 213, Application US/09263959
Patent No. US20020150891A1

GENERAL INFORMATION:
APPLICANT: Hood, Leroy E.

APPLICANT: Rosen, Lee
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI

NUMBER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESS:

ADDRESSEE: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle
STATE: Washington

COUNTRY: US
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR-1999

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: McMasters, David D.

REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 213:

SEQUENCE CHARACTERISTICS:
LENGTH: 39 base pairs

TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
US-09-263-959-213

Query Match 0.8%; Score 19.2; DB 10; Length 39;
Best Local Similarity 87.5%; Pred. No. 1.2e+05;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1911 AGGATGTGCTTGATCATCTGTG 1934
DB 24 AGGATGTGCTTGATCATCTGTG 1

RESULT 55
US-09-753-436-101/C

Sequence 101, Application US/09753436
Patent No. US20010029293A1

GENERAL INFORMATION:
APPLICANT: Galleatin, W. Michael

APPLICANT: Vazeux, Rosemay
TITLE OF INVENTION: ICAM-Related Materials and Methods

NUMBER OF SEQUENCES: 120
CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive

CITY: Chicago
STATE: Illinois

COUNTRY: United States of America
ZIP: 60606-6402

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/753,436
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/382,289
FILING DATE:

APPLICATION NUMBER: US 08/487,113
FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,754

FILING DATE: 05-AUG-1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/102,852
FILING DATE: 05-AUG-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/009,266

FILING DATE: 22-JAN-1993
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/894,061
FILING DATE: 05-JUN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/889,724

FILING DATE: 26-MAY-1992
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/827,689
FILING DATE: 27-JAN-1992

ATTORNEY/AGENT INFORMATION:
NAME: Williams, Joseph A., Jr.
REGISTRATION NUMBER: 38,659

REFERENCE/DOCKET NUMBER: 33282
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (312) 474-6300
 TELEFAX: (312) 474-0448
 TELEX: 25-3856
 INFORMATION FOR SEQ ID NO: 101:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 43 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 US-09-753-436-101

Query Match 0.8%; Score 19.2; DB 10; Length 43;
 Best Local Similarity 67.5%; Pred. No. 1.4e+05;
 Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 189 GGACCATGCGGAGCTGACCATATGAACTTGCGATGGA 228
 Db 40 GGACCAAGCTGGAGCTGAAGTAAGTAAGTCAATGCA 1

RESULT 56
 US-09-263-959-148/c
 Sequence 148, Application US/09263959
 Patent No. US20020150891A1
 GENERAL INFORMATION:
 APPLICANT: Hood, Leroy E.
 APPLICANT: Rowen, Lee
 APPLICANT: Koop, Ben F.
 TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI
 NUMBER OF SEQUENCES: 1279
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Seed and Berry LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98104-7092
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/263,959
 FILING DATE: 05-MAR-1999
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Mcmasters, David D.
 REGISTRATION NUMBER: 33,963
 REFERENCE/DOCKET NUMBER: 920010.426C2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 622-4900
 TELEFAX: (206) 682-6031
 INFORMATION FOR SEQ ID NO: 148:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 46 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-09-263-959-148

Query Match 0.8%; Score 19.2; DB 10; Length 46;
 Best Local Similarity 87.5%; Pred. No. 1.4e+05;
 Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1911 AGATGTTGCTCTGATACATGCTG 1934
 Db 24 AGATGTTGCTCTGATCAATGCTG 1

RESULT 57
 US-09-999-724-14
 Sequence 14, Application US/09999724
 Publication No. US20030022355A1
 GENERAL INFORMATION:
 APPLICANT: WICKHAM, THOMAS J.
 APPLICANT: Kovesdi, Imre
 APPLICANT: BROUGH, DOUGLAS E.
 TITLE OF INVENTION: VECTORS AND METHODS FOR GENE TRANSFER
 FILE REFERENCE: 212960
 CURRENT APPLICATION NUMBER: US/09/999,724
 CURRENT FILING DATE: 2001-10-24
 PRIOR APPLICATION NUMBER: US 09/101,751
 PRIOR FILING DATE: 1999-01-29
 PRIOR APPLICATION NUMBER: WO 96US19150
 PRIOR FILING DATE: 1996-11-27
 PRIOR APPLICATION NUMBER: US 08/700,846
 PRIOR FILING DATE: 1996-08-21
 PRIOR APPLICATION NUMBER: US 08/701,124
 PRIOR FILING DATE: 1996-08-21
 PRIOR APPLICATION NUMBER: US 08/563,368
 PRIOR FILING DATE: 1995-11-28
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 14
 LENGTH: 48
 TYPE: RNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic
 US-09-999-724-14

Query Match 0.8%; Score 19.2; DB 9; Length 48;
 Best Local Similarity 60.0%; Pred. No. 1.4e+05;
 Matches 24; Conservative 3; Mismatches 13; Indels 0; Gaps 0;

Qy 1761 AAAATCATCAATGCTGCAAAAAAACTTAAGCAAAA 1800
 Db 8 AAAAAAGAACGUGUGUAAAAAAGAAAAA 47

RESULT 58
 US-09-796-679-18/c
 Sequence 18, Application US/09796679
 Publication No. US2003003076A1
 GENERAL INFORMATION:
 APPLICANT: Robinson, Anthony J
 APPLICANT: Lytle, David J
 TITLE OF INVENTION: Parapoxvirus vectors
 FILE REFERENCE: 23607 MRB
 CURRENT APPLICATION NUMBER: US/09/796,679
 CURRENT FILING DATE: 2001-03-30
 PRIOR APPLICATION NUMBER: 09/155,421
 PRIOR FILING DATE: 1998-09-29
 PRIOR APPLICATION NUMBER: PCT/NZ97/00040
 PRIOR FILING DATE: 1997-03-27
 PRIOR APPLICATION NUMBER: NZ 286284
 PRIOR FILING DATE: 1996-03-29
 NUMBER OF SEQ ID NOS: 26
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 18
 LENGTH: 49
 TYPE: DNA
 ORGANISM: Orf virus strain NZ-2
 US-09-796-679-18

Query Match 0.8%; Score 19.2; DB 9; Length 49;
 Best Local Similarity 67.5%; Pred. No. 1.4e+05;
 Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 Qy 2177 AACTTAAATGCAATTAATGTTGTTGTAAGAAAGC 2216
 Db 2177 AACTTAAATGCAATTAATGTTGTTGTAAGAAAGC 2216

Db 48 ATCTTTATGTCAGAAATTATTCGTGGCGGAGCTGCG 9

RESULT 59

US-10-085-906-204/c
Sequence 204, Application US/10085906
Publication No. US20030054371A1
GENERAL INFORMATION:
APPLICANT: Ying, Vincent
APPLICANT: Wu, Paul
APPLICANT: Gray, Gary S.
TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE
TITLE OF INVENTION: COSTIMULATORY RECEPTOR LOCUS AND USES THEREOF
FILE REFERENCE: GNN-5343CP2
CURRENT APPLICATION NUMBER: US/10/085,906
CURRENT FILING DATE: 2002-02-27
PRIOR APPLICATION NUMBER: US 60/126,215
PRIOR FILING DATE: 1999-03-25
PRIOR APPLICATION NUMBER: US 09/534,061
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: PCT/US00/07938
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 545
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 204
LENGTH: 49
TYPE: DNA
ORGANISM: Homo sapiens
US-10-085-906-204

Query Match 0.8%; Score 19.2; DB 9; Length 49;
Best Local Similarity 67.5%; Pred. No. 1.4e+05;
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 911 GGGAGATAGAGAAACAATGACAAATCCCTCAATG 950

Db 41 GAGAGAAAGAGAGAAAAAGATGAGAAAAACATPAAAAAG 2

RESULT 60

US-09-907-900-52/c
Sequence 52, Application US/09907900
Patent No. US2002017297A1
GENERAL INFORMATION:
APPLICANT: Hartley, James L.
APPLICANT: Brasch, Michael A.
APPLICANT: Temple, Gary F.
APPLICANT: Fox, Donna K.
TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having
TITLE OF INVENTION: Recombination Sites
FILE REFERENCE: 0942.2850004
CURRENT APPLICATION NUMBER: US/09/907,900
CURRENT FILING DATE: 2001-07-19
PRIOR APPLICATION NUMBER: 09/177,387
PRIOR FILING DATE: 1998-10-23
NUMBER OF SEQ ID NOS: 60
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 52
LENGTH: 53
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: oligonucleotide
US-09-907-900-52

Query Match 0.8%; Score 19.2; DB 9; Length 53;
Best Local Similarity 75.0%; Pred. No. 1.5e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2009 AATTAGCATGACAGCTTGTCACAACTTTGCC 2040

Db 33 AATTAGCTGCTTTTGTGACAACTTGTCGCC 2

RESULT 61

US-09-907-719-52/c
Sequence 52, Application US/09907719
Publication No. US20020192819A1
GENERAL INFORMATION:
APPLICANT: Hartley, James L.
APPLICANT: Brasch, Michael A.
APPLICANT: Temple, Gary F.
APPLICANT: Fox, Donna K.
TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having
TITLE OF INVENTION: Recombination Sites
FILE REFERENCE: 0942.2850004
CURRENT APPLICATION NUMBER: US/09/907,719
CURRENT FILING DATE: 2001-07-19
PRIOR APPLICATION NUMBER: US/09/177,387
PRIOR FILING DATE: 1998-10-23
NUMBER OF SEQ ID NOS: 60
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 52
LENGTH: 53
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: oligonucleotide
US-09-907-719-52

Query Match 0.8%; Score 19.2; DB 9; Length 53;
Best Local Similarity 75.0%; Pred. No. 1.5e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2009 AATTAGCATGACAGCTTGTCACAACTTTGCC 2040

Db 33 AATTAGCTGCTTTTGTGACAACTTGTCGCC 2

RESULT 62

US-09-855-797A-52/c
Sequence 52, Application US/09855797A
Patent No. US20020094574A1
GENERAL INFORMATION:
APPLICANT: Hartley, James L.
APPLICANT: Brasch, Michael A.
APPLICANT: Temple, Gary F.
APPLICANT: Fox, Donna K.
TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having
TITLE OF INVENTION: Recombination Sites
FILE REFERENCE: 0942.2850008
CURRENT APPLICATION NUMBER: US/09/855,797A
CURRENT FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 09/296,281
PRIOR FILING DATE: 1999-04-22
PRIOR APPLICATION NUMBER: US 60/065,930
PRIOR FILING DATE: 1997-10-24
NUMBER OF SEQ ID NOS: 60
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 52
LENGTH: 53
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: oligonucleotide
US-09-855-797A-52

Query Match 0.8%; Score 19.2; DB 10; Length 53;
Best Local Similarity 75.0%; Pred. No. 1.5e+05;
Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2009 AATTAGCATGACAGCTTGTCACAACTTTGCC 2040

Db 33 AATTAGCTGCTTTTGTGACAACTTGTCGCC 2

Db 33 AATTAGCCTGCTTTTGTACAACTGTCC 2

RESULT 63

US-09-970-308-8
; Sequence 8, Application US/09970308
; Patent No. US20020045193A1
; GENERAL INFORMATION:
; APPLICANT: BRIZZARD, BILLY L.
; TITLE OF INVENTION: PURIFICATION OF RECOMBINANT PROTEINS FUSED TO MULTIPLE
; FILE REFERENCE: SGM 6933.2
; CURRENT APPLICATION NUMBER: US/09/970.308
; CURRENT FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: 09/415,000
; PRIOR FILING DATE: 1999-10-08
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 54
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Primer
US-09-970-308-8

Query Match 0.8%; Score 19.2; DB 10; Length 54;

Best Local Similarity 67.5%; Pred. No. 1.5e+05;

Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 377 GGAATATTTGCGATGAGTGTCTTAAAAAGCATGAT 416

Db 15 GGACTACAAAGACCATGCGTGTATTATAAGATCATGAT 54

RESULT 64

US-09-970-308-9/c
; Sequence 9, Application US/09970308
; Patent No. US20020045193A1
; GENERAL INFORMATION:
; APPLICANT: BRIZZARD, BILLY L.
; APPLICANT: HERNAN, RON
; TITLE OF INVENTION: PURIFICATION OF RECOMBINANT PROTEINS FUSED TO MULTIPLE
; FILE REFERENCE: SGM 6933.2
; CURRENT APPLICATION NUMBER: US/09/970.308
; CURRENT FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: 09/415,000
; PRIOR FILING DATE: 1999-10-08
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 54
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Primer
US-09-970-308-9

Query Match 0.8%; Score 19.2; DB 10; Length 54;

Best Local Similarity 67.5%; Pred. No. 1.5e+05;

Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 377 GGAATATTTGCGATGAGTGTCTTAAAAAGCATGAT 416

Db 40 GGACTACAAAGACCATGCGTGTATTATAAGATCATGAT 1

RESULT 65

US-09-426-548-41
; Sequence 41, Application US/09426548
; Patent No. US20010044936A1

; GENERAL INFORMATION:

; APPLICANT: Robbins, David
; APPLICANT: Lin-Goerke, Julie L.
; APPLICANT: Ling, Jessica
; TITLE OF INVENTION: No. US20010044936A1el Mutations in Human MLH1 and MSH2 Genes Usefu
; FILE REFERENCE: DEX-0054
; CURRENT APPLICATION NUMBER: US/09/426,548
; CURRENT FILING DATE: 1999-10-22
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 41
; LENGTH: 57
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-426-548-41

Query Match 0.8%; Score 19.2; DB 10; Length 57;

Best Local Similarity 67.5%; Pred. No. 1.6e+05;

Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 2117 TATATTAATATATATTTTCAATAGATTGATTCAGC 2156

Db 15 TATATTAATATATATTTTCAATAGATTGATTCAGTTC 54

RESULT 66

US-09-902-941-2002
; Sequence 2002, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Marnerakis, Margarita
; APPLICANT: Carter, Darrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Bangur, Chaltanya S.
; APPLICANT: McNabb, Andria
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.478C17
; CURRENT APPLICATION NUMBER: US/09/902,941
; CURRENT FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 2002
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2002
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-902-941-2002

Query Match 0.8%; Score 19.2; DB 9; Length 60;

Best Local Similarity 58.9%; Pred. No. 1.6e+05;

Matches 33; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 652 TTACATCAAAAGGATCATCTACAGACCTGAACCCGAGATATCATGCTTAA 707

Db 2 TATATCTAAGAAAGCACTGTAATAATGCCAAGAGAGTGAAGCAACCA 57

RESULT 67

US-10-017-754-2002
; Sequence 2002, Application US/10017754
; Publication No. US20030054363A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.

APPLICANT: Retter, Marc W.
APPLICANT: Marnierakis, Margarita
APPLICANT: Carter, Derrick
APPLICANT: Fanger, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Bangur, Chaleanya S.
APPLICANT: McNabb, Andria
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.478C18
CURRENT APPLICATION NUMBER: US/10/017,754
CURRENT FILING DATE: 2001-10-29
NUMBER OF SEQ ID NOS: 2004
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2002
LENGTH: 60
TYPE: DNA
ORGANISM: Homo sapiens
US-10-017-754-2002

Query Match 0.8%; Score 19.2; DB 9; Length 60;
Best Local Similarity 58.9%; Pred. No. 1.6e+05;
Matches 33; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 652 TTACATCAAAAGGGATCATCTACAGAGACCTGAAGCCGAGAAATATCATGCTTAA 707
Db 2 TAATACCTAAAGAGAGACAGCTGTAATAATGCCAGAGAGGTGAAGACACACACA 57

RESULT 68
US-10-085-906-255/c
Sequence 255, Application US/10085906
Publication No. US2003005437A1
GENERAL INFORMATION:
APPLICANT: Ying, Vincent
APPLICANT: Wu, Paul
APPLICANT: Gray, Gary S.
TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE
TITLE OF INVENTION: COSTIMULATORY RECEPTOR LOCUS AND USES THEREOF
FILE REFERENCE: GNN-5343CP2
CURRENT APPLICATION NUMBER: US/10/085,906
CURRENT FILING DATE: 2002-02-27
PRIOR APPLICATION NUMBER: US 60/126,215
PRIOR FILING DATE: 1999-03-25
PRIOR APPLICATION NUMBER: US 09/534,061
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: PCT/US00/07938
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 545
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 255
LENGTH: 46
TYPE: DNA
ORGANISM: Homo sapiens
US-10-085-906-255

Query Match 0.8%; Score 19; DB 9; Length 46;
Best Local Similarity 65.1%; Pred. No. 1.5e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2110 TTTTATATATAAATATATATTTTCAATAGATTTTGATT 2152
Db 43 TTTATTTATTTTATTTATTTTATTTTATTTTATTTTATTTT 1

RESULT 69
US-09-827-289-20
Sequence 20, Application US/09827289
Patent No. US20020009716A1
GENERAL INFORMATION:
APPLICANT: Abartzua, Patricia
TITLE OF INVENTION: Process for Allele Discrimination Using Primer
TITLE OF INVENTION: Extension

FILE REFERENCE: 469290-55
CURRENT APPLICATION NUMBER: US/09/827,289
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: U.S. 60/194843
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 35
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 46
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: P1 primer for
OTHER INFORMATION: use in allele discrimination
US-09-827-289-20

Query Match 0.8%; Score 19; DB 10; Length 46;
Best Local Similarity 65.1%; Pred. No. 1.5e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2111 TTTTATATATAAATATATATTTTCAATAGATTTTGATT 2153
Db 1 TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 43

RESULT 70
US-09-827-289-24
Sequence 24, Application US/09827289
Patent No. US20020009716A1
GENERAL INFORMATION:
APPLICANT: Abartzua, Patricia
TITLE OF INVENTION: Process for Allele Discrimination Using Primer
TITLE OF INVENTION: Extension
FILE REFERENCE: 469290-55
CURRENT APPLICATION NUMBER: US/09/827,289
CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: U.S. 60/194843
PRIOR FILING DATE: 2000-04-05
NUMBER OF SEQ ID NOS: 35
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 24
LENGTH: 46
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: P1 primer for
OTHER INFORMATION: use in allele discrimination
US-09-827-289-24

Query Match 0.8%; Score 19; DB 10; Length 46;
Best Local Similarity 65.1%; Pred. No. 1.5e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2111 TTTTATATATAAATATATATTTTCAATAGATTTTGATT 2153
Db 1 TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 43

RESULT 71
US-09-938-842A-3904
Sequence 3904, Application US/09938842A
Patent No. US20020160378A1
GENERAL INFORMATION:
APPLICANT: Harper, Joel
APPLICANT: Wang, Xun
APPLICANT: Zhu, Tong
TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
TITLE OF INVENTION: SAME, AND METHODS OF USE
FILE REFERENCE: SCRIPI300-3
CURRENT APPLICATION NUMBER: US/09/938,842A
CURRENT FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: US 60/227,866

PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/264,647
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/300,111
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 5379
SEQ ID NO 3904
LENGTH: 53
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-938-842a-3904

Query Match 0.8%; Score 19; DB 9; Length 53;
Best Local Similarity 71.4%; Pred. No. 1.7e+05;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 2085 GTTTACGTCGAACACCTGATCTTTTAT 2119
Db 1 GTATTCTAAAGAAAGAACTGATGTTT 35

RESULT 72
US-09-263-959-519/c
Sequence 519, Application US/09263959
Patent No. US20020150891A1
GENERAL INFORMATION:
APPLICANT: Hood, Leroy E.
APPLICANT: Rowen, Lee
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTI
NUMBER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR-1999
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 519:
SEQUENCE CHARACTERISTICS:
LENGTH: 54 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-263-959-519

Query Match 0.8%; Score 19; DB 10; Length 54;
Best Local Similarity 65.1%; Pred. No. 1.7e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2110 TTTTATATATATATATATATTTTCAATGATTTTGA 2152
Db 53 TTTATTTATTTATTTATTTATTTATTTATTTATTT 11

RESULT 73
US-10-085-906-18/c

Sequence 18, Application US/10085906
Publication No. US20030054371A1
GENERAL INFORMATION:
APPLICANT: Ying, Vincent
APPLICANT: Wu, Paul
APPLICANT: Gray, Gary S.
TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE
FILE REFERENCE: GNN-5343CP2
CURRENT APPLICATION NUMBER: US/10/085,906
CURRENT FILING DATE: 2002-02-27
PRIOR APPLICATION NUMBER: US 60/126,215
PRIOR FILING DATE: 1999-03-25
PRIOR APPLICATION NUMBER: US 09/534,061
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: PCT/US00/07938
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 545
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 18
LENGTH: 55
TYPE: DNA
ORGANISM: Homo sapiens
US-10-085-906-18

Query Match 0.8%; Score 19; DB 9; Length 55;
Best Local Similarity 81.5%; Pred. No. 1.7e+05;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2045 AAAATGGAGGCAACACCAAGAA 2071
Db 38 AAAAAGGAAAGAAAGAAAGAA 12

RESULT 74
US-10-007-132-59/c
Sequence 59, Application US/10007132
Publication No. US20030027254A1
GENERAL INFORMATION:
APPLICANT: Bard, Jonathan A
APPLICANT: Borowsky, Beth
APPLICANT: Smith, Kelli E
TITLE OF INVENTION: DNA ENCODING GALANIN GALR3 RECEPTORS
AND USES THEREOF
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,132
FILING DATE: 03-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/058,333
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 52241-E/JPW/XDB
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212 278 0400
TELEFAX: 212 391 0525
INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:

LENGTH: 57 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-10-007-132-59

Query Match 0.8%; Score 19; DB 9; Length 57;
Best Local Similarity 71.4%; Pred. No. 1.8e+05;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1768 AATCAATGTCGCAAAAAAATTAAAGCAAAATA 1802
Db 47 AATAAACCCCTCCAAAAAATAAAAAAAAAAAAAA 13

RESULT 75
US-09-944-036-31/c
Sequence 31, Application US/09944036
Patent No. US20020055095A1
GENERAL INFORMATION:
APPLICANT: YANG, Yeasing Y.
APPLICANT: BRENTANO, Steven T.
APPLICANT: BABOLA, Odile
APPLICANT: TRAN, Nathalie
APPLICANT: VERNET, Guy
TITLE OF INVENTION: AMPLIFICATION OF HIV-1 SEQUENCES FOR DETECTION OF
FILE REFERENCE: GP114-02.UT
CURRENT APPLICATION NUMBER: US/09/944,036
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: US 60/229,790
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 70
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 31
LENGTH: 57
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Capture
US-09-944-036-31

Query Match 0.8%; Score 19; DB 10; Length 57;
Best Local Similarity 65.1%; Pred. No. 1.8e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2108 TCTTTTATATATATATATATTTTCAATGATTTTGA 2150
Db 56 TTTTATTTTTTTTTTTTTTTTTTTTAAACGGTTATTA 14

RESULT 76
US-09-943-286-7/c
Sequence 7, Application US/09943286
Patent No. US2002010668A1
GENERAL INFORMATION:
APPLICANT: Nunomura, Kiyocada
TITLE OF INVENTION: POLYNUCLEOTIDE AMPLIFICATION METHOD
FILE REFERENCE: GP104-02.UT
CURRENT APPLICATION NUMBER: US/09/943,286
CURRENT FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 57
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Sequence of the (-)-4258 A30 capture probe.

US-09-943-286-7
Query Match 0.8%; Score 19; DB 10; Length 57;
Best Local Similarity 65.1%; Pred. No. 1.8e+05;
Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2108 TCTTTTATATATATATATATTTTCAATGATTTTGA 2150
Db 56 TTTTATTTTTTTTTTTTTTTTTTTTAAACGGTTATTA 14

RESULT 77
US-09-954-692-17
Sequence 17, Application US/09954692
Publication No. US20030027156A1
GENERAL INFORMATION:
APPLICANT: Patten, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020500US
CURRENT APPLICATION NUMBER: US/09/954,692
CURRENT FILING DATE: 2001-09-12
PRIOR APPLICATION NUMBER: US/08/769,062
PRIOR FILING DATE: 1996-12-18
PRIOR APPLICATION NUMBER: 08/425,684
PRIOR FILING DATE: 1995-04-18
PRIOR APPLICATION NUMBER: 08/537,874
PRIOR FILING DATE: 1995-10-30
NUMBER OF SEQ ID NOS: 101
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 17
LENGTH: 60
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: degenerate
US-09-954-692-17

Query Match 0.8%; Score 19; DB 9; Length 60;
Best Local Similarity 57.1%; Pred. No. 1.8e+05;
Matches 28; Conservative 4; Mismatches 17; Indels 0; Gaps 0;

Qy 144 CTCGAGATGACCTGAGGAGGCGGTCAATTAATGAAGCATGAC 192
Db 4 CTCGAGCTGACCTGCCDCGAYGDCARATGAACGTTGCAGGAC 52

RESULT 78
US-09-559-671A-17
Sequence 17, Application US/09559671A
Patent No. US20020051976A1
GENERAL INFORMATION:
APPLICANT: Patten, Phillip
APPLICANT: Stemmer, William P.C.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING
FILE REFERENCE: 02-020503US
CURRENT APPLICATION NUMBER: US/09/559,671A
CURRENT FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 08/769,062
PRIOR FILING DATE: 1996-12-18
PRIOR APPLICATION NUMBER: 08/198,431
PRIOR FILING DATE: 1994-02-17
PRIOR APPLICATION NUMBER: 08/425,684
PRIOR FILING DATE: 1995-04-18
PRIOR APPLICATION NUMBER: 08/537,874
PRIOR FILING DATE: 1995-10-30
NUMBER OF SEQ ID NOS: 101
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 17
LENGTH: 60
TYPE: DNA
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: degenerate
OTHER INFORMATION: oligonucleotide used for codon usage library
US-09-559-671A-17

Query Match 0.8%; Score 19; DB 10; Length 60;
Best Local Similarity 57.1%; Pred. No. 1.8e+05;
Matches 28; Conservative 4; Mismatches 17; Indels 0; Gaps 0;

QY 144 CTCGAGATGAGTGGAGGCGGGTCAATGAATGAATGAGC 192
DB 4 CTCGAGCGTACTGCTGCCDGDYVGDCAATGACGTTGCCAGAC 52

RESULT 79
US-09-877-478-4121
Sequence 4121, Application US/09877478
Publication No. US2003068301A1
GENERAL INFORMATION:
APPLICANT: Ribozyne Pharmaceuticals, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Morrissey, Dave
TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MBH00-845-H (400/029)
CURRENT APPLICATION NUMBER: US/09/877,478
CURRENT FILING DATE: 2001-12-31
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/656,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 08/434,504
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6586
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4121
LENGTH: 37
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-09-877-478-4121

Query Match 0.8%; Score 18.8; DB 9; Length 37;
Best Local Similarity 60.0%; Pred. No. 1.5e+05;
Matches 18; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 177 AATGAAGCATGAGCATGGGGAGTTGG 206
DB 6 AAAGAUGGCAUGCAGUAGCGCGACUUGG 35

RESULT 80
US-09-877-478-3202
Sequence 3202, Application US/09877478
Publication No. US2003068301A1
GENERAL INFORMATION:
APPLICANT: Ribozyne Pharmaceuticals, Inc.
APPLICANT: Draper, Kenneth
APPLICANT: Blatt, Larry
APPLICANT: McSwiggen, Jim
APPLICANT: Morrissey, Dave

TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication
FILE REFERENCE: MBH00-845-H (400/029)
CURRENT APPLICATION NUMBER: US/09/877,478
CURRENT FILING DATE: 2001-12-31
PRIOR APPLICATION NUMBER: US 07/882,712
PRIOR FILING DATE: 1992-05-14
PRIOR APPLICATION NUMBER: US 09/531,025
PRIOR FILING DATE: 2000-03-20
PRIOR APPLICATION NUMBER: US 09/636,385
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: US 09/656,347
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 08/193,627
PRIOR FILING DATE: 1994-02-07
PRIOR APPLICATION NUMBER: US 08/433,993
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 08/434,504
PRIOR FILING DATE: 1995-05-04
PRIOR APPLICATION NUMBER: US 09/436,430
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 6586
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3202
LENGTH: 38
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
US-09-877-478-3202

Query Match 0.8%; Score 18.8; DB 9; Length 38;
Best Local Similarity 55.3%; Pred. No. 1.5e+05;
Matches 21; Conservative 5; Mismatches 12; Indels 0; Gaps 0;

QY 557 GAGAGACACTATTATGCACTTGAAGAAGAGGAGAT 594
DB 1 GUGAGAGUCUGAGAGCGCCGUGAGCCGAAGGAGUA 38

RESULT 81
US-09-247-890-14
Sequence 14, Application US/09247890
Publication No. US20020198162A1
GENERAL INFORMATION:
APPLICANT: Punnonen, Juha
APPLICANT: Baes, Steven H.
APPLICANT: Whalen, Robert Gerald
APPLICANT: Howard, Russell
APPLICANT: Stemmer, Willem P.C.
APPLICANT: Maxygen, Inc.
TITLE OF INVENTION: Antigen Library Immunization
FILE REFERENCE: 018097-028710US
CURRENT APPLICATION NUMBER: US/09/247,890
CURRENT FILING DATE: 1999-02-10
EARLIER APPLICATION NUMBER: US 60/074,294
EARLIER FILING DATE: 1998-02-11
EARLIER APPLICATION NUMBER: US 60/105,509
EARLIER FILING DATE: 1998-10-23
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 39
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: reverse HBV alyw
US-09-247-890-14

Query Match 0.8%; Score 18.8; DB 9; Length 39;
Best Local Similarity 76.7%; Pred. No. 1.6e+05;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2050 GGGAAGGCAAGACAAAGAACTTACCAG 2079
Db 4 GGGAACCAAGACAAAGAAATGGA 33

RESULT 82

US-10-043-573-131/C
Sequence 131, Application US/10043573
Publication No. US20030032025A1
GENERAL INFORMATION:

APPLICANT: Lemieux, Bertrand

Landry, Benoit S.

Sapolsky, Ronald J.

TITLE OF INVENTION: Brassica Polymorphisms

NUMBER OF SEQUENCES: 173

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/043,573

FILING DATE: 09-Jan-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/613,507

FILING DATE: 07-MAR-1997

APPLICATION NUMBER: US 60/032,069

FILING DATE: 02-DEC-1996

ATTORNEY/AGENT INFORMATION:

NAME: Liebeschuetz, Joe

REGISTRATION NUMBER: 37,505

REFERENCE/DOCKET NUMBER: 018547-031000US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415 576-0200

TELEFAX: 415 576-0200

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 131:

SEQUENCE CHARACTERISTICS:

LENGTH: 42 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 131:

US-10-043-573-131

Query Match 0.8%; Score 18.8; DB 9; Length 42;

Best local Similarity 61.9%; Pred. No. 1.6e+05;

Matches 26; Conservative 2; Mismatches 14; Indels 0; Gaps 0;

QY 757 ATTGATGATGGAACAGTACACATTTTGTGGAACATA 798

Db 42 ATGATGCAACACAGTCAACACATGTCGTATACATA 1

RESULT 83

US-10-046-935-34/C

Sequence 34, Application US/10046935

Patent No. US20020156011A1

GENERAL INFORMATION:

APPLICANT: Jjiang, Yugu

APPLICANT: Harlocker, Susan L.

APPLICANT: Wang, Aijun

APPLICANT: Secretist, Heather

APPLICANT: Stolk, John A.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER

FILE REFERENCE: 210121.527C1

CURRENT APPLICATION NUMBER: US/10/046,935

CURRENT FILING DATE: 2002-01-15

NUMBER OF SEQ ID NOS: 2239

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 34

LENGTH: 51

TYPE: DNA

ORGANISM: Homo sapiens

US-10-046-935-34

Query Match 0.8%; Score 18.8; DB 9; Length 51;

Best local Similarity 90.9%; Pred. No. 1.9e+05;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 430 AAAGTACAGCTCATCAAG 451

Db 22 AAAGCACAGCTCATCAAG 1

RESULT 84

US-09-878-178-34/C

Sequence 34, Application US/09878178

Patent No. US20020177552A1

GENERAL INFORMATION:

APPLICANT: Jjiang, Yugu

APPLICANT: Harlocker, Susan L.

APPLICANT: Secretist, Heather

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

FILE REFERENCE: 210121.527

CURRENT APPLICATION NUMBER: US/09/878,178

CURRENT FILING DATE: 2001-06-08

NUMBER OF SEQ ID NOS: 2237

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 34

LENGTH: 51

TYPE: DNA

ORGANISM: Homo sapien

US-09-878-178-34

Query Match 0.8%; Score 18.8; DB 9; Length 51;

Best local Similarity 90.9%; Pred. No. 1.9e+05;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 430 AAAGTACAGCTCATCAAG 451

Db 22 AAAGCACAGCTCATCAAG 1

RESULT 85

US-10-146-502-34/C

Sequence 34, Application US/10146502

Publication No. US20030069180A1

GENERAL INFORMATION:

APPLICANT: Jjiang, Yugu

APPLICANT: Harlocker, Susan L.

APPLICANT: Secretist, Heather

APPLICANT: Wang, Aijun

APPLICANT: Stolk, John A.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

FILE REFERENCE: 210121.527C2

CURRENT APPLICATION NUMBER: US/10/146,502

CURRENT FILING DATE: 2002-05-14

NUMBER OF SEQ ID NOS: 2241

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 34

LENGTH: 51

TYPE: DNA

ORGANISM: Homo sapiens

US-10-146-502-34

Query Match 0.8%; Score 18.8; DB 9; Length 51;
Best Local Similarity 90.9%; Pred. No. 1.9e+05;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 430 AAGATACAGCTCATACAAAG 451
DB 22 AAGCCACAGCTCATACAAAG 1

RESULT 86
US-10-027-805-1

Sequence 1, Application US/10027805
Patent No. US20020164725A1
GENERAL INFORMATION:

APPLICANT: ROBERTSON, Daniel E.

MURPHY, Dennis

REID, John

MAFFIA, Anthony

LINK, Steven

SWANSON, Ronald V.

WARREN, Patrick V.

KOSMOTKA, Anna

TITLE OF INVENTION: ESTERASES

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: FISH & RICHARDSON P.C.

STREET: 4225 EXECUTIVE SQUARE, STE 1400

CITY: LA JOLLA

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 INCH DISKETTE

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WORD PERFECT 6.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/027,805

FILING DATE: 21-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/602,359

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: HAITE, LISA A.

REGISTRATION NUMBER: 38,347

REFERENCE/DOCKET NUMBER: 09010/010001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-678-5070

TELEFAX: 619-678-5099

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 52 NUCLEOTIDES

TYPE: NUCLEIC ACID

STRANDEDNESS: SINGLE

TOPOLOGY: LINEAR

MOLECULE TYPE: CDNA

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-10-027-805-1

Query Match 0.8%; Score 18.8; DB 9; Length 52;

Best Local Similarity 68.4%; Pred. No. 1.9e+05;

Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1734 ACACAGGAAAAATTAACGTGATTTTAAAAATCATC 1771

DB 14 AAAGAGGAAATTAATCTATCTTTAAACAGCAGC 51

RESULT 87

US-09-907-900-58/c

Sequence 58, Application US/09907900

Patent No. US20020172997A1

GENERAL INFORMATION:

APPLICANT: Hartley, James L.

APPLICANT: Brasch, Michael A.

APPLICANT: Temple, Gary F.

APPLICANT: Fox, Donna K.

TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having

FILE REFERENCE: 0942.2850004

CURRENT APPLICATION NUMBER: US/09/907,900

PRIOR FILING DATE: 2001-07-19

PRIOR FILING DATE: 1998-10-23

NUMBER OF SEQ ID NOS: 60

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 58

LENGTH: 52

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: synthetic

US-09-907-900-58

Query Match 0.8%; Score 18.8; DB 9; Length 52;

Best Local Similarity 63.0%; Pred. No. 1.9e+05;

Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1995 TGCACACTAGGACAAATTTAGCATGCAAGCTTGCTCAACTTTCCC 2040

DB 47 TACATATTTGAATGTATTAAGCCCTTTTGTACAAACTTGCC 2

RESULT 88

US-09-907-719-58/c

Sequence 58, Application US/09907719

Publication No. US20020192819A1

GENERAL INFORMATION:

APPLICANT: Hartley, James L.

APPLICANT: Brasch, Michael A.

APPLICANT: Temple, Gary F.

APPLICANT: Fox, Donna K.

TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having

FILE REFERENCE: 0942.2850004

CURRENT APPLICATION NUMBER: US/09/907,719

PRIOR FILING DATE: 2001-07-19

PRIOR FILING DATE: 1998-10-23

NUMBER OF SEQ ID NOS: 60

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 58

LENGTH: 52

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: synthetic

US-09-907-719-58

Query Match 0.8%; Score 18.8; DB 9; Length 52;

Best Local Similarity 63.0%; Pred. No. 1.9e+05;

Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1995 TGCACACTAGGACAAATTTAGCATGCAAGCTTGCTCAACTTTCCC 2040

DB 47 TACATATTTGAATGTATTAAGCCCTTTTGTACAAACTTGCC 2

RESULT 89

US-10-027-804-1

Sequence 1, Application US/10027804

Publication No. US20030054530A1

;; TITLE OF INVENTION: Receptors
;; FILE REFERENCE: AREN-0308
;; CURRENT APPLICATION NUMBER: US/09/995,225
;; CURRENT FILING DATE: 2001-11-26
;; PRIOR APPLICATION NUMBER: 09/170,496
;; PRIOR FILING DATE: 1998-10-13
;; PRIOR APPLICATION NUMBER: PCT/US99/23938
;; PRIOR FILING DATE: 1998-10-13
;; PRIOR APPLICATION NUMBER: 60/253,404
;; PRIOR FILING DATE: 2000-11-27
;; PRIOR APPLICATION NUMBER: 60/255,366
;; PRIOR FILING DATE: 2000-12-12
;; PRIOR APPLICATION NUMBER: 60/270,286
;; PRIOR FILING DATE: 2001-02-20
;; PRIOR APPLICATION NUMBER: 60/282,365
;; PRIOR FILING DATE: 2001-04-06
;; PRIOR APPLICATION NUMBER: 60/270,266
;; PRIOR FILING DATE: 2001-02-20
;; PRIOR APPLICATION NUMBER: 60/282,032
;; PRIOR FILING DATE: 2001-04-06
;; PRIOR APPLICATION NUMBER: 60/282,358
;; PRIOR FILING DATE: 2001-04-06
;; PRIOR APPLICATION NUMBER: 60/282,356
;; PRIOR FILING DATE: 2001-04-06
;; PRIOR APPLICATION NUMBER: 60/290,917
;; PRIOR FILING DATE: 2001-05-14
;; PRIOR APPLICATION NUMBER: 60/309,208
;; PRIOR FILING DATE: 2001-07-31
;; NUMBER OF SEQ ID NOS: 67
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 51
;; LENGTH: 53
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: No. US20020193584A1el Sequence
US-09-995-225-51

Query Match 0.8%; Score 18.8; DB 9; Length 53;
Best Local Similarity 68.4%; Pred. No. 1.9e+05;
Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 132 AGAGAGCGCGGCTCTGAGATGAGCTGAGAGAGCGG 169
Db 16 ACAGCGCGGAGCTCTTCAGGTTGAGCTGCAGATG 53

RESULT 93
US-10-083-168-92
;; Sequence 92, Application US/10083168
;; Publication No. US20030023069A1
;; GENERAL INFORMATION:
;; APPLICANT: Liaw, Chen W.
;; APPLICANT: Chalmers, Derek T.
;; APPLICANT: Behan, Dominic P.
;; APPLICANT: Maciejewski-Ienior, Dominique
;; APPLICANT: Leonard, James N.
;; APPLICANT: Orcuno, Daniel
;; APPLICANT: Lin, I-Lin
;; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively Act
;; FILE REFERENCE: AREN-0320
;; CURRENT APPLICATION NUMBER: US/10/083,168
;; CURRENT FILING DATE: 2002-02-26
;; NUMBER OF SEQ ID NOS: 102
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 92
;; LENGTH: 53
;; TYPE: DNA
;; ORGANISM: Unknown
;; FEATURE:
;; OTHER INFORMATION: No. US20030023069A1el Sequence
US-10-083-168-92

Query Match 0.8%; Score 18.8; DB 9; Length 53;
Best Local Similarity 68.4%; Pred. No. 1.9e+05;
Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 132 AGAGAGCGCGGCTCTGAGATGAGCTGAGAGAGCGG 169
Db 16 ACAGCGCGGAGCTCTTCAGGTTGAGCTGCAGATG 53

RESULT 94
US-08-781-986A-2724/c
;; Sequence 2724, Application US/08781986A
;; Publication No. US20030054436A1
;; GENERAL INFORMATION:
;; APPLICANT: Charles Kunsch
;; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
;; NUMBER OF SEQUENCES: 5255
;; CORRESPONDENCE ADDRESSES:
;; ADDRESSEE: Human Genome Sciences, Inc.
;; STREET: 9410 Key West Avenue
;; CITY: Rockville
;; STATE: Maryland
;; COUNTRY: USA
;; ZIP: 20850
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
;; COMPUTER: HP Vectra 486/33
;; OPERATING SYSTEM: MSDOS version 6.2
;; SOFTWARE: ASCII Text
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/781,986A
;; FILING DATE:
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Benson, Bob
;; REGISTRATION NUMBER: 30,446
;; REFERENCE/DOCKET NUMBER: PB248PP
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (301) 309-8504
;; TELEFAX: (301) 309-8512
;; INFORMATION FOR SEQ ID NO: 2724:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 54 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: double
;; TOPOLOGY: linear
US-08-781-986A-2724

Query Match 0.8%; Score 18.8; DB 7; Length 54;
Best Local Similarity 63.0%; Pred. No. 1.9e+05;
Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Qy 1016 GAATGCTGCTTCTCTGCTGAGAGCTGCTTCGAGGAGCGCTGAGA 1001
Db 54 GAATCTCTGCTGAGAGCTGCTTCGAGGAGCGCTGAGA 9

RESULT 95
US-09-944-036-30
;; Sequence 30, Application US/09944036
;; Patent No. US20020055095A1
;; GENERAL INFORMATION:
;; APPLICANT: YANG, Yeasing Y.
;; APPLICANT: BRENTANO, Steven T.
;; APPLICANT: BABOLA, Odile
;; APPLICANT: TRAN, Nathalie
;; APPLICANT: VERNET, Guy
;; TITLE OF INVENTION: AMPLIFICATION OF HIV-1 SEQUENCES FOR DETECTION OF
;; SEQUENCES ASSOCIATED WITH DRUG-RESISTANCE MUTATIONS


```
/ GENERAL INFORMATION:
/ APPLICANT: Couto, Linda B.
/ APPLICANT: Colosi, Peter C.
/ TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
/ TITLE OF INVENTION: by Target Cells
/ FILE REFERENCE: AVigen-04082
/ CURRENT APPLICATION NUMBER: US/10/007,968
/ CURRENT FILING DATE: 2001-12-13
/ PRIOR APPLICATION NUMBER: 09/740,211
/ PRIOR FILING DATE: 2000-12-18
/ PRIOR APPLICATION NUMBER: 60/125,974
/ PRIOR FILING DATE: 1999-03-24
/ PRIOR APPLICATION NUMBER: 60/104,994
/ PRIOR FILING DATE: 1998-10-20
/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 8
/ LENGTH: 59
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-007-968-8
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Query Match          0.8%; Score 18.8; DB 9; Length 59;
Best Local Similarity 63.0%; Pred. No. 2.1e+05;
Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
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QY 2237 TCTTGTAATAATTAATGAATGCAATGATCTTGTAAACACAGCT 2282
DB 55 TATTGTTAAAGAGTATATTAGACGAGCTCTTCTGCACACAGAT 10
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RESULT 100
US-10-007-280A-2
/ Sequence 2, Application US/10007280A
/ Publication No. US20030059784A1
/ GENERAL INFORMATION:
/ APPLICANT: Sun, Yongming
/ APPLICANT: Recipon, Herve
/ APPLICANT: Salceda, Susana
/ APPLICANT: Chenghua, Liu
/ TITLE OF INVENTION: Compositions and Methods Relating to Ovary Specific Genes and Pro
/ FILE REFERENCE: DEX-0257
/ CURRENT APPLICATION NUMBER: US/10/007,280A
/ CURRENT FILING DATE: 2001-11-07
/ PRIOR APPLICATION NUMBER: US 60/246,640
/ PRIOR FILING DATE: 2000-11-08
/ NUMBER OF SEQ ID NOS: 238
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 2
/ LENGTH: 59
/ TYPE: DNA
/ ORGANISM: Homo sapien
US-10-007-280A-2
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Query Match          0.8%; Score 18.8; DB 9; Length 59;
Best Local Similarity 63.0%; Pred. No. 2.1e+05;
Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
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QY 1645 AGAGGAGATGTGTGACATCTCTGCAAGTGAACAAAGACTCAAA 1690
DB 5 AATGTGATATGAAAGACAGCTACAGTATATAACACTGCTCAGAA 50
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Search completed: April 19, 2003, 12:08:13
Job time : 248 secs

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C	83	21.4	0.9	52	12	BG271387	BG271387	naI49D05
C	84	21.4	0.9	53	12	BG231005	BG231005	naI43B05
C	85	21.4	0.9	55	17	A2366215	A2366215	IM0115A14
C	86	21.4	0.9	57	14	N63550	N63550	yz77a05_g1
C	87	21.4	0.9	57	17	B03506	B03506	CSRL-180D5
C	88	21.4	0.9	59	9	AI473426	AI473426	c1j3901.x
C	89	21.4	0.9	59	17	AI769947	AI769947	Arabidopoe
C	90	21.2	0.9	39	10	AV837933	AV837933	AV837933
C	91	21.2	0.9	39	17	BH235137	BH235137	MSAD_E07
C	92	21.2	0.9	46	9	AA027516	AA027516	m108C08_x
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C	94	21.2	0.9	49	12	BG815402	BG815402	60278163
C	95	21.2	0.9	51	13	B0032647	B0032647	AI0032647
C	96	21.2	0.9	51	17	A2949877	A2949877	2M0212P06
C	97	21.2	0.9	52	9	AL587783	AL587783	AI587783
C	98	21.2	0.9	53	17	AZ864273	AZ864273	2M0169H19
C	99	21.2	0.9	53	17	CNS03135	AI102995	Drosophila
C	100	21.2	0.9	54	12	BG022522	BG022522	daa76h12

ALIGNMENTS

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RESULT 1
LOCUS AA153855
DEFINITION AA153855. 47 bp mRNA linear EST 19-FEB-1997
mq66f01.r Soares thymus 2NbMT Mus musculus cDNA clone IMAGE:581785
5' similar to gb:M60724 RIBOSOMAL PROTEIN S6 KINASE (HUMAN) ;, mRNA
sequence.
ACCESSION AA153855
VERSION AA153855.1 GI:1725637
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus.
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Scuriognathi; Muridae; Murinae; Mus.
1 (bases 1 to 47)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,B.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Thaisang,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
Waterston,R.
The Mashu-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
Washu-HMI Mouse EST Project
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LMLT ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MG1:356433
Trace considered overall poor quality
Seq primer: -28M13 rev2 from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. .47
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:581785"
/clone_1fb="Soares_thymus_2NbMT"
/sex="male"
/tissue_type="Thymus"
/dev_stage="4 weeks"
/lab_host="DHL0B"
/note="vector: pRTT3-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA

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Query Match	Similarity	Score	DB %	Length	47
Best Local	87.2%	Pred. No. 6.3e+02			
Matches	41	Conservative	0	Mismatches	5
				Indels	0
				Gaps	0
QY	1990	ATACCTGCACATGAAGACAATTTGACATGACGACGCTTGTCACAACTTT	2036		
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RESULT 2
PT039490/9

LOCUS	48 bp	RNA linear	EST 05-DEC-2001
DEFINITION	Bu039490	NIBB Mochii normalized Xenopus neurula library	Xenopus laevis cDNA clone XL049k03 5', mRNA sequence.
ACCESSION	Bu039490		
VERSION	Bu039490.1	GI:17372298	
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
FEATURES			
source			
Query Match	1.1%	Score 26.6	DB 13; Length 48;
Best Local Similarity	66.7%	Prod. No. 1.8e+05;	
Matches 32; Conservative	0;	Mismatches 16;	Indels 0; Gaps 0;
Orig	1741	AAAAAAAAAAGTGAATTTTAAAAAATCAATCAATGCTCCAAAAAAA	1788
Db	48	AAAAAAAAANNCCTTTTAAAAAANNNANNGGAGAAAAAAA	1

LOCUS	B02929	58 bp	DNA	linear	GEN 13-JUL-1996
DEFINITION	CSRL-163B1-u CSRL flow sorted Chromosome 11 specific cosmid Homo sapiens genomic clone CSRL-163B1, DNA sequence.				
ACCESSION	B02929				
VERSION	B02929.1	GI:1412207			
KEYWORDS	GSS.				
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
AUTHORS	1 (bases 1 to 58) Evans G.A., Burpee D., Davies C., Hahner L., Oliver T., Gilbert M., Jones D., Ward T., Gillilan E., Schgemann J., Probst S., Harris J., Deford J., McFarland J., Buzinski K., Khan M., Kupfer K. and Garner H.R.				
TITLE	Genomic Sequence Sampled Map of Chromosome 11				
JOURNAL	Unpublished (1996)				
COMMENT	Contact: Evans GA, Shane Probst McMerritt Center for Human Growth and Development University of Texas Southwestern Medical Center At Dallas 5323 Harry Hines Blvd, Dallas TX 75235-8591 Tel: 214-648-1600 Fax: 214-648-1656 Email: g.evans@utsw.swmed.edu, shane@cmcmerritt.swmed.edu Seq primer: 77 Class: cosmid ends High quality sequence stop: 58. Location/Qualifiers 1..58 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="CSRL-163B1" /clone_lib="CSRL Flow sorted Chromosome 11 specific cosmid" /sex="female" /cell_type="chimeric hamster somatic cell hybrid" /note="Vector: scos-1; Human Chromosome 11 specific cosmid library prepared from flow sorted human Chromosome 11 derived from Chinese Hamster Ovary (CHO) monochromosomal somatic cell hybrid, J1"				
BASE COUNT	27 a 27 c 1 g 29 t 1 others				
ORIGIN					
Query Match	1.1%; Score 25.2; DB 17; Length 58;				
Best Local Similarity	70.2%; Pred. No. 3.8e+05;				
Matches	33; Conservative 0; Mismatches 14; Indels 0; Gaps 0;				
Qy	2106 AATCTTTTATATATAATATATATTTTTCAAATAGATTTTGATT 2152				
Db	1 AATTTATTTTATATATATATTTAGATATTTTNNATAAAAAATTTTAATT 47				
RESULT 4					
AU269582	54 bp, mRNA				
LOCUS	AU269582 VS Dictyostelium discoideum cDNA clone VSJ214 5', mRNA				
DEFINITION	sequence.				
ACCESSION	AU269582				
VERSION	AU269582.1	GI:20528380			
KEYWORDS	EST.				
ORGANISM	Dictyostelium discoideum.				
SOURCE	Dictyostelium discoideum				
REFERENCE	Eukaryota; Mycetozoa; Dictyostellida; Dictyostelium.				
AUTHORS	1 (bases 1 to 54) Urushihara H., Morio T., Saito T., Koriki E., Ochiai H., Maeda M., Takeuchi T., Kohara Y. and Tanaka Y.				
TITLE	Population analysis of cDNAs from unicellular and multicellular stages of Dictyostelium discoideum				
JOURNAL	Unpublished (2002)				
COMMENT	Contact: Hideko Urushihara Institute of Biological Sciences University of Tsukuba 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan				

```

Tel: 81-298-53-4664
Fax: 81-298-53-6614
Email: hideko@biol.tsukuba.ac.jp.
Location/Qualifiers
1. .54
/organism="Dictyostelium discoideum"
/strain="AX4"
/db_xref="taxon:44689"
/clone="VSG214"
/clone_id="VS"
/sex="mat A"
/dev_stage="vegetative"
2 g 5 t

BASE COUNT 40 a 29 a 1 c 0 g 15 t
ORIGIN

Query Match 1.0%; Score 24.4; DB 9; Length 54;
Best Local Similarity 73.8%; Pred.No.5.8e+05;
Matches 31; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Cy 1759 TAAAAATCATCATGTGTCMAAAAAAAAACTTAAGCAAAA 1800
Db 12 TAAACCAAAAAAAAAAAGGTTCAAAAAAAAAATTAACAAAAA 53

RESULT 5
LOCUS AU266762/c 45 bp mRNA EST 10-MAY-20022
DEFINITION AU266762 VS Dictyostelium discoideum cDNA clone VSG731 5', mRNA
sequence.
ACCESSION AU266762
VERSION AU266762.1 GI:20525560
KEYWORDS EST.
SOURCE Dictyostelium discoideum.
ORGANISM Dictyostelium discoideum
Eukaryota; Mycetozoa; Dictyostellida; Dictyostelium.
1 (bases 1 to 45)
Urushihara,H., Morio,T., Saeto,T., Koriki,E., Ochiai,H., Maeda,M.,
Takeuchi,I., Konara,Y. and Tanaka,Y.
Population analysis of cDNAs from unicellular and multicellular
stages of Dictyostelium discoideum
Unpublished (2002)
JOURNAL Contact: Hideko Urushihara
COMMENT Institute of Biological Sciences
University of Tsukuba
1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
Tel: 81-298-53-4664
Fax: 81-298-53-6614
Email: hideko@biol.tsukuba.ac.jp.
Location/Qualifiers
1. .45
/organism="Dictyostelium discoideum"
/strain="AX4"
/db_xref="taxon:44689"
/clone="VSG731"
/clone_id="VS"
/sex="mat A"
/dev_stage="vegetative"
29 a 1 c 0 g 15 t
ORIGIN

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Best Local Similarity 72.1%; Pred.No.7.9e+05;
Matches 31; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Cy 2110 TTTTATTAATTAATATATATTTTCAAAAGATTTTGATT 2152
Db 45 TTTTATTAATTAATTAATTAATTTATTTATTTGTTT 3

RESULT 6
LOCUS TA261E040/c 42 bp DNA linear GSS 13-DEC-2000
DEFINITION T. brucei sheared genomic DNA clone 261e04, reverse sequence,

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REFERENCE	TITLE	JOURNAL	COMMENT	FEATURES	BASE COUNT	ORIGIN
AL488612	Genomic survey sequence.					
AL488612.1	GI:11863920					
KEYWORDS						
SOURCE						
ORGANISM						
REFERENCE						
AUTHORS						
1 bases 1 to 42						
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajadream, M.A. and Barrell, B.G.						
Submitted (10-DEC-2000)						
Trypanosoma						
Trypanosoma brucei						
Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
Trypanosoma						
1 bases 1 to 42						
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajadream, M.A. and Barrell, B.G.						
Submitted (10-DEC-2000)						
Trypanosoma						
Trypanosoma brucei						
Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
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Trypanosoma brucei						
Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
Trypanosoma						
Trypanosoma brucei						
Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
Trypanosoma						
Trypanosoma brucei						
Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
Trypanosoma						
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Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
Trypanosoma						
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Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
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Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
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Trypanosoma brucei						
Trypanosoma brucei						
Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;						
Trypanosoma						
Trypanosoma brucei						
Trypanosoma brucei					</	

found through the I.M.A.G.E. Consortium/LLNL at
www.bio.llnl.gov/bdnp/image/image.html
Insert length: 1195 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amerstham
High quality sequence stop: 51.
Location/Qualifiers

FEATURES

source

Location/Qualifiers

1..56

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/db_xref="taxon:9606"

/clone="IMAGE:1287484"

/clone_1ib="NCI_COAP_GCB1"

/tissue_type="germinal center B cell"

/lab_host="DH10B"

/note=vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA library prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+ IgG-), provided by Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer

[5'-TGTTACCAATCTGAAGCGAGCGCCGCCCTCATTTTTTTTTTTTTTTT-3'] Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT

ORIGIN

Query Match

Best Local Similarity 73.2%; Pred. No. 9.7e+05;

Matches 30; Conservative 0; Mismatches 11; Indels 0; Gaps 0.

Oy 2108 TCTTTTATTATAATATATATTTTTCAAATAGATTTT 2148

Db 4 TTTTGTGGTAATAAATGAATGATTTTAAAAATATTTT 44

RESULT 8

AA107349

LOCUS

DEFINITION

m193a10.r1 Striatogene mouse kidney (#937315) Mus musculus cDNA clone IMAGE:519546 5' similar to SW:ATPe_MOUSE P00848 ATP SYNTHASE A CHAIN ; mRNA sequence.

ACCESSION

AA107349

AA107349.1 GI:1658632

EST.

house mouse.

Mus musculus.

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scurionathii; Muridae; Murinae; Mus.

REFERENCE

AUTHORS

Warrar,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.

TITLE

The WashU-HMNI Mouse EST Project

JOURNAL

Unpublished (1996)

COMMENT

Contact: Marra W/Mouse EST Project
WashU-HMNI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watsn.wustl.edu
This clone is available royalty-free through LBNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:313394
Possible reversed clone: similarity on wrong strand
Seq primer: -28nt3 rev1 RT from Amersham
High quality sequence stop: 1.
Location/Qualifiers

FEATURES

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source
1. .58
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/strain="C57BL/6"
/db_xref="taxon:10090"
/clone="IMAGE:519546"
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/tissue_type="kidney"
/dev_stage="4 weeks"
/lab_host="SOLR (Kanamycin resistant)"
/notes="Organ: kidney; Vector: pBluescript SK-; Site_1:
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sequence: 5' CTCGAGTTTATTTTATTTT 3'"

BASE COUNT      17 a      14 c      8 g      19 t
ORIGIN
Query Match      1.0%; Score 23.4; DB 9; Length 58;
Best Local Similarity 67.3%; Pred. No. 9.7e+05;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Cy 1793 AACGAAATGATTTGCTGAACTCTTAGGCAATCAATTAATGATTC 1841
Db 2 AACCAAAATCCTATTGGCTTATTCATTAACCAAAATTAATGATTC 50

RESULT 9
BQ907332 58 bp mRNA linear EST 19-AUG-2002
LOCUS      P004C10 Oryza sativa mature leaf library induced by M. grisea Oryza
DEFINITION      sativa cDNA clone P004C10, mRNA sequence.
ACCESSION      BQ907332
VERSION        BQ907332.1 GI:22306110
KEYWORDS       EST.
SOURCE         Oryza sativa.
ORGANISM       Oryza sativa.
REFERENCE      1 (bases 1 to 58)
AUTHORS        Dong,H.T., Li,D.B., Zhuang,X.F., Dai,C.G., Sun,L.X., Pei,Y.X., Wu
               H.F., Jiang,Y.X., Yu,F.C., Gao,Q.K. and Lou,Y.C.
TITLE          A Gene Expression Screen in Oryza sativa
JOURNAL        Unpublished (2001)
COMMENT        Contact: Dong HT
               Laboratory of Functional Genetics
               Bio-technology Institute of Zhejiang University
               Kaixuan Road 268#, Hangzhou, Zhejiang, P.R.China
               Tel: 0086-571-86892051
               Fax: 0086-571-86961525
               Email: htdong@zjuem.zju.edu.cn
               Seq primer: M13 forward primer.
               Location/Qualifiers
               1. .58
               /organism="Oryza sativa"
               /db_xref="taxon:4530"
               /clone="P004C10"
               /clone_1lb="Oryza sativa mature leaf library induced by
               M. grisea"
               /tissue_type="leaf"
               /dev_stage="Mature stage"
               /note="Vector: pSPOT2"

BASE COUNT      33 a      4 c      19 t      1 others
ORIGIN
Query Match      1.0%; Score 23.2; DB 14; Length 58;
Best Local Similarity 64.2%; Pred. No. 1.1e+06;
Matches 34; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Cy 2225 TTCTGTTCTCTCTGTTGTAATTAATAATGCAATGATCATGTTAACA 2277
Db 55 TTTTATTTTATTTTAAATTAATTAATTAATTAATTAATTAATTAATTA 3

```

```

RESULT 10
BH813384 59 bp DNA linear GSS 02-MAY-2002
LOCUS      SALK_064078 Arabidopsis thaliana TDNA insertion lines Arabidopsis
DEFINITION      thaliana genomic clone SALK_064078, DNA sequence.
ACCESSION      BH813384
VERSION        BH813384.1 GI:20391857
KEYWORDS       GSS.
SOURCE         chile cress.
ORGANISM       Arabidopsis thaliana
REFERENCE      1 (bases 1 to 59)
AUTHORS        Alonso,J.M., Leisse,T.J., Barajas,P., Chen,H., Cheuk,R., Gadgilab
               C., Jeske,A., Karnes,M., Kim,C.J., Parker,H., Predits,L., Shinn,P.,
               Zimmerman,J. and Ecker,J.R.
TITLE          A Sequence-Indexed Library of Insertion Mutations in the
JOURNAL        Arabidopsis Genome
COMMENT        Contact: Joseph R. Ecker
               Salk Institute Genomic Analysis Laboratory (SIGAL)
               The Salk Institute for Biological Studies
               10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
               Tel: 858 453 4100 x1752
               Fax: 858 558 6379
               Email: ecker@salk.edu
               This is single pass sequence recovered from the left border of
               TDNA. This sequence lies within 300 bases of the 5' end of
               At1g54490.
               Class: TDNA tagged.
               Location/Qualifiers
               1. .58
               /organism="Arabidopsis thaliana"
               /strain="Columbia 0"
               /db_xref="taxon:3702"
               /clone="SALK_064078"
               /clone_1lb="Arabidopsis thaliana TDNA insertion lines"
               /note="PCR was performed on Arabidopsis thaliana lines
               each of which contains one or more TDNA insertion
               elements. The resultant fragment for each line was
               directly sequenced to determine the genomic sequence at
               the site of insertion. Details of the protocols used can
               be found at http://signal.salk.edu/tdna\_protocols.html"

BASE COUNT      26 a      4 c      17 g      12 t
ORIGIN
Query Match      1.0%; Score 23.2; DB 17; Length 59;
Best Local Similarity 65.4%; Pred. No. 1.1e+06;
Matches 34; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Cy 2163 TGAATAATCCCAATTTAAATGCAATTAATGTTGTTGTAAGAAA 2214
Db 4 TAAATAAAGACTCAGAGCTTAATCGAAATAATATTGGGCTGAAGAA 55

RESULT 11
BG271427 50 bp mRNA linear EST 20-FEB-2001
LOCUS      na150f05.x1 NCI_CGAP_HN20 Homo sapiens cDNA clone IMAGE:426361 3',
DEFINITION      mRNA sequence.
ACCESSION      BG271427
VERSION        BG271427.1 GI:12979558
KEYWORDS       EST.
SOURCE         human.
ORGANISM       Homo sapiens
REFERENCE      1 (bases 1 to 50)
AUTHORS        Mamalila, Euteria; Primates; Catarrhini; Hominiidae; Homo.
TITLE          NCI/NIDR-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
               National Cancer Institute / National Institute of Dental Research,

```

Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.

Email: cgabps-email.nih.gov
CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL, send email to:
info@image.lnl.nih.gov
Seq primer: -40UP from Glibco.

Location/Qualifiers
1. .50

```

/organism="Homo sapiens"
/db xref="taxon:9606"
/clone="IMAGE:4263681"
/clone_id="NCI CGAP_HN20"
/lab host="DH10B"
/notes="Organ: normal head/neck tissue; Vector: pAM1; mRNA
made from head/neck tissue, CDNA made by oligo-RT
priming. Directionally cloned into UDG sites.
Size-selected on agarose gel, average insert size 300 bp.
Primary library. CDNA Library Preparation: David B.
Primman, Ph.D."

```

BASE COUNT	13 a	7 c	9 g	21 t
ORIGIN				

Query Match	1.0%;	Score 23;	DB 12;	Length 50;
Best Local Similarity	68.1%;	Pred. No. 1.2e+06;		
Matches 32;	Conservative 0;	Mismatches 15;	Indels 0;	Gaps 0;

Qy 203 TTGGACCATATGAACCTTGGCATGGAACATTGTGAGAAATTTGAAATC 243

Db 2 TTTTTCCTTATGACGATGTAAATTGTACATCGTTAGAAGCTTGAATTC 48

RESULT 12	
AZ508445	
LOCUS	
DEFINITION	
AZE08445	51 bp DNA linear
IM035OF1R Mouse 10kb plasmid UUCG1M library MMS musculus genomic	
clone UUCG1M035Of1 R, DNA sequence.	

ACCESSION	AZ508445
VERSION	AZ508445.1
KEYWORDS	GSS.
SOURCE	house mouse.

SOURCE	house mouse.
ORGANISM	Mus musculus.

REFERENCE
AUTHORS

Eukaryote; Metazoa; Chordata; Crustacea; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus (Passes 1 to 51)

Dunn, D., Aoyagi, A., Barber, M., Beacom, T., Duval, B., Hamill, C.,

TITLE	
Mouse whole genome scaffolding with paired end reads from 10kb	

JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Email: dahn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0350 row: F column: 11
 Seq primer: CACACAGGAACACGTATGACC
 High quality sequence stop: 51.
 class: plasmid ends

Location/Qualifiers
1. .51

```
/organism="Mus musculus"
/strain="C57BL/6J"
```

BASE COUNT	11 a	4 c	0 g	36 t
ORIGIN				

Query Match	1.0%;	Score 23;	DB 17;	Length 51;
Best Local Similarity	68.1%;	Pred. No. 1.2e+06;		
Matches 32; Conservative	0;	Mismatches 15;	Indels 0;	Gaps 0;

```

QY 2108 TCTTTTATATAAATATATTTTCAATAGATTTTGGATTC 2154
      ||||| ||||| ||||| ||||| ||||| |||||
Db 4 TCTTTATTATTATTATTATTATTATTATTATTATTATTATT 50

```

RESULT 13	
A2621827	
LOCUS	59 bp DNA linear GSS 13-DEC-2000
DEFINITION	1M0455C10F Mouse 10kb plasmid U06C1M library Mus musculus genomic
	clone U06C1M0455C10 F, DNA sequence.

ACCESSION	AZ621827
VERSION	AZ621827.1
KEYWORDS	GSS.
SOURCE	house mouse.

SOURCE	house mouse
ORGANISM	Mus musculus

REFERENCE
AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacom, T., Duval, B., Hamil, C.,
1 (Bases 1 to 59)
Dunn, D., Aoyagi, A., Barber, M., Beacom, T., Duval, B., Hamil, C.,
1 (Bases 1 to 59)

TITLE Mouse whole genome scaffolding with paired end reads from 10Kb

JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLc, UT
84112, USA

Email: ddunn@genetics.utah.edu
 Tel: 801 585 5806
 Fax: 801 585 7177
 Insert Length: 10000 Std Error: 0.00
 Plate: 0455 row: C column: 10
 Seq primer: CGTGTGTAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence, stop: 59.

Location/Qualifiers
1. .59

```
/organism="Mus musculus"
/strain="C57BL/6J"
```

/db_xref="taxon:10090"
/clone="U9C1M0455C10"
/clone_1lb="Mouse 10kb plasmid U9C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42uv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 23 a 7 c 11 g 18 t

ORIGIN

Query Match 1.0%; Score 23; DB 17; Length 59;
Best Local Similarity 63.6%; Pred. No. 1.2e+06;
Matches 35; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 2240 TGGTGAATATATAATGCAATGATCATTTGATACAGCTGTGCTGCTTTG 2294
|||||
Db 2 TTGATTAAGTATGATGACAGCAATGATTTTACACAGTATCATCATATG 56
|||||

RESULT 14
AA554929 60 bp mRNA linear EST 08-SEP-1997
LOCUS nk31905.s1 NCI CGAP Col1 Homo sapiens cDNA clone IMAGE:1015160 3'
DEFINITION similar to SW:RL37_HUMAN P02403 60S RIBOSOMAL PROTEIN L37.;, mRNA
sequence.
VERSION AA554929
KEYWORDS AA554929.1 GI:2325468
EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 60)
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Elias Campo,
M.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Stratagene, Inc.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
www-bio.llnl.gov/bdrip/image/image.html
Insert length: 481 Std Error: 0.00
Seq primer: -40ml3 fwd. RT from Amerisham.
Location/Qualifiers
1. 60
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1015160"
/clone_1lb="NCI CGAP Col1"
/tissue_type="tumor"

FEATURES
source

/lab_host="SOLR (kanamycin resistant)"
/note="Organ: colon; Vector: Bluescript SK-; Site 1: EcoRI
/Site 2: XhoI; Cloned unidirectionally. Primer: Oligo
dr. Multiple colon tumors. 5' adaptor sequence: 5'
GAATCGGACGAG 3', 3' adaptor sequence: 5'
CTCGACTTTTCTTTTCTTTTCTTTT 3' Average insert size: 1.1 kb."

BASE COUNT 10 a 3 c 2 g 45 t

ORIGIN

Query Match 1.0%; Score 23; DB 9; Length 60;
Best Local Similarity 68.1%; Pred. No. 1.2e+06;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1754 GATTTTAAAAATCAATGATGTCAGCAAAAAAATTTAAAGCAAAA 1800
|||||
Db 47 GCTTTTAAAAATTAATAAAAAAATTTAAAAAATTTAAAAA 1
|||||

RESULT 15
AM411378 60 bp mRNA linear EST 29-JUN-2000
LOCUS fh12a03.y1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2964389 3',
DEFINITION mRNA sequence.
VERSION AM411378
KEYWORDS AM411378.1 GI:6936919
EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 60)
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC)
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
www-bio.llnl.gov/bdrip/image/image.html
Plate: LLCM64 row: B column: 6
Seq primer: M13RP reverse primer (ABT).
Location/Qualifiers
1. 60
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2964389"
/clone_1lb="NIH_MGC_17"
/tissue_type="thadomyosarcoma"
/lab_host="pH10B (phage-resistant)"
/note="Organ: muscle; Vector: pOTB7; Site 1: EcoRI;
Site 2: XhoI; cDNA made by oligo-dr priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAACGAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 18 a 4 c 5 g 33 t

ORIGIN

Query Match 1.0%; Score 23; DB 10; Length 60;
Best Local Similarity 68.1%; Pred. No. 1.2e+06;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2108 TCTTTTATATATATATATATTTTCAATGATTTTGAATTC 2154
|||||
Db 12 TTTTATTTGTAAGAAAGAAATATTTTATGAAACAGTTTCAATTA 58
|||||


```

RESULT 18
BM880091/c 53 bp mRNA linear EST 07-MAR-2002
LOCUS ku04n02.v1 Strongyloides ratti PA female naive pAMP1 v1
DEFINITION Strongyloides ratti cDNA 5', mRNA sequence.
ACCESSION BM880091
VERSION BM880091.1 GI:19252758
KEYWORDS EST.
ORGANISM Strongyloides ratti.
SOURCE Strongyloides ratti.
ORGANISM Strongyloides ratti.
REFERENCE Strongyloides ratti.
AUTHORS Strongyloides ratti.
1 (bases 1 to 53)
McCarteer,J., Clifton,S., Chiapelli,B., Page,D., Martin,J., Wylie,T.,
Dane,M., Marra,M., Hillier,L., Kucabs,T., Ineising,B., Bowers,Y.,
Gibbons,M., Rilter,E., Bennett,J., Franklin,C., Tsagarisvili,R.,
Romko,I., Kennedy,S., Maguire,L., Beck,C., Underwood,K., Steptoe
,M., Allen,M., Person,B., Swaller,T., Harvey,N., Schurk,R., Kohn,S.,
Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterton,R. and
Wilson,R.
The Washington Univ. Nematode EST Project, 1999
Unpublished (1999)
Contact: McCarteer JP
The Washington Univ., Nematode EST Project, 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel.: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
The library was constructed by Brandi Chiapelli and Dr. James
McCarteer at Washington University, St. Louis. The cDNA was made by
using Dynabead oligo-dT priming (Dynal). PCR based library using a
modified protocol from the SMART PCR cDNA Synthesis Kit from
Clontech. Directionally cloned into the UDG sites of pAMP1.
Dissected nematode tissues were provided by Dr. Alan Scott
(ascott@hspri.edu) of the School of Public Hygiene and Public Health
at John Hopkins University in Baltimore, MD.
FEATURES
Source
1..53
/organism="Strongyloides ratti"
/db_xref="taxon:34506"
/clone_lib="Strongyloides ratti PA female naive pAMP1 v1"
/dep_stage="parasitic adult females"
/lab_host="DH10B"
/note="Vector: pAMP1 (Gibco); Site 1: NotI; Site 2: SalI;
The library was constructed by Claire Murphy, Brandi
Chiapelli and Dr. James McCarteer at Washington University,
St. Louis. The cDNA was made by using Dynabead oligo-dT
priming (Dynal). PCR based library using a modified
protocol from the SMART PCR cDNA Synthesis Kit from
Clontech. Directionally cloned into the UDG sites of
pAMP1. Parasitic adult females were collected from naive
animals and provided by Dr. Mark Vinney of Bristol, UK."
BASE COUNT 36 a 2 c 2 g 13 t
ORIGIN
Query Match 1.0%; Score 22.8; DB 14; Length 53;
Best Local Similarity 71.4%; Pred. No. 1.3e+06;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 2108 TCTTTTATATATATATATATATATTTTCAATAGATTTTG 2149
Db 47 TTTTATTTTTTAAAAATATTTTATTTATTTATTTATTTATG 6
RESULT 19
A2482068/c 54 bp DNA linear GSS 04-OCT-2000
LOCUS A2482068
DEFINITION 1M0306M23R clone 10kb plasmid UUC1M library Mus musculus genomic
clone UUC1M0306M23 R, DNA sequence.
ACCESSION A2482068
VERSION A2482068.1 GI:10643133
KEYWORDS GSS.

```

```

SOURCE          house mouse.
ORGANISM        Mus musculus.
REFERENCE       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS         Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                1 (bases 1 to 54)
                Dunn,D., Aoyagi,A., Barber,M., Baecorn,T., Duvall,B., Hamil,C.,
                Islam,H., Longacre,S., Mahmood,M., Meenen,E., Pedersen,T., Reilly
                'M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
                and Wright,D., Weiss,R.
                Mouse whole genome scaffolding with paired end reads from 10kb
                plasmid inserts
                Unpublished (2000)
JOURNAL COMMENT Contact: Robert B. Weiss
                University of Utah
                University of Utah Genome Center
                Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                84112, USA
                Tel: 801 585 5606
                Fax: 801 585 7177
                Email: ddunn@genetics.utah.edu
                Insert Length: 10000 Std Error: 0.00
                Plate: 0306 row: M column: 23
                Seq primer: CACACAGGAAACACGCTATGACC
                Class: plasmid ends
                High quality sequence stop: 54.

FEATURES
  Source
    1..54
    /organism="Mus musculus"
    /strain="C57BL/6J"
    /db_xref="taxon:10090"
    /clone="UNC0306M23"
    /clone_lib="Mouse 10kb plasmid U0306M23 library"
    /sex="Male"
    /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
    /note="Vector: pMD42nv; Purified genomic DNA from M.
    musculus C57BL/6J (male) was obtained from the Jackson
    laboratory Mouse DNA Resource
    (http://www.jax.org/resources/documents/dnares/). The DNA
    was hydrodynamically sheared by repeated passage through a
    0.005 inch orifice at constant velocity. The sheared DNA
    was blunt end-repaired with T4 DNA polymerase and T4
    polynucleotide kinase. Adaptor oligonucleotides were
    ligated to the blunt ends in high molar excess. The
    adaptor DNA was purified and size-selected for a 9.5 to
    10.5 kb range using preparative agarose gel
    electrophoresis. Vector DNA was prepared from a derivative
    of pMD42 (gi|4732114|gb|AF129072.1), a copy-number
    inducible derivative of plasmid R1. The vector was ligated
    with adaptors complementary to the insert adaptors and
    purified. The sheared, adaptor mouse DNA was annealed to
    adaptor vector DNA, and transformed into
    chemically-competent E. coli XL10-Gold (Stratagene) cells
    and selected for ampicillin resistance."

BASE COUNT
  31 a      4 c      9 g     10 t

ORIGIN
Query Match      1.0%; Score 22.8; DB 17; Length 54;
Best Local Similarity 71.4%; Pred. No. 1.3e+06;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

cy 2094 GCAAACACCTGATCTTTTATATATATATATATATTTT 2135
      |||||
Db 42 GCAAACCTCGAAATCTTTTATATATATATATATATTTT 1

RESULT 20
LOCUS AU264598/c 59 bp mRNA linear EST 10-MAY-2002
AU264598 AU264598 VS Dictyostelium discoideum cDNA clone VSD814.5', mRNA
sequence.
ACCESSION AU264598
VERSION AU264598.1 GI:20523396
KEYWORDS EST.

```

```

SOURCE          Dictyostelium discoideum.
ORGANISM        Eukaryota; Mycetozoa; Dictyostelida; Dictyostelium.
REFERENCE       1 (bases 1 to 59)
AUTHORS         Urushihara,H., Morio,T., Saito,T., Koriki,E., Ochiai,H., Maeda,M.,
                Takeuchi,I., Kohara,Y. and Tanaka,Y.
TITLE           Population analysis of cDNAs from unicellular and multicellular
                stages of Dictyostelium discoideum
JOURNAL         Unpublished (2002)
COMMENT         Contact: Hideko Urushihara
                Institute of Biological Sciences
                University of Tsukuba
                1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
                Tel: 81-298-53-4664
                Fax: 81-298-53-6614
                Email: hideko@biol.tsukuba.ac.jp.

FEATURES
  source        1..59
                /organism="Dictyostelium discoideum"
                /strain="AX4"
                /db_xref="taxon:44689"
                /clone="VSD814"
                /clone_11b="VS"
                /sex="mat A"
                /dev_stage="vegetative"

BASE COUNT     30 a          1 g          24 t

ORIGIN
Query Match          1.0%; Score 22.8; DB 9; Length 59;
Best Local Similarity 62.1%; Pred. No. 1.3e+06;
Matches 36; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Cy 2110 TTTTATTAATTAATTAATTAATTTTCATGATGATTTGATTCAGCGCATATATGAA 2167
Db 59 TTTTATTAATTAATTAATTAATTAATTAATTAATGATTTTAAATTTGATTAATTAAGAA 2

RESULT 21
LOCUS          AU267788/c          59 bp          mRNA          EST 10-MAY-2002
DEFINITION    AU267788 VS Dictyostelium discoideum cDNA clone VSH63 5', mRNA
SEQUENCE
ACCESSION     AU267788
VERSION       AU267788
KEYWORDS      EST.
SOURCE        AU267788.1 GI:20526586
ORGANISM      Dictyostelium discoideum.
COMMENT       Dictyostelium discoideum.
                Dictyostelium discoideum
                Eukaryota; Mycetozoa; Dictyostelida; Dictyostelium.
                1 (bases 1 to 59)
                Urushihara,H., Morio,T., Saito,T., Koriki,E., Ochiai,H., Maeda,M.,
                Takeuchi,I., Kohara,Y. and Tanaka,Y.
                Population analysis of cDNAs from unicellular and multicellular
                stages of Dictyostelium discoideum
                Unpublished (2002)
                Contact: Hideko Urushihara
                Institute of Biological Sciences
                University of Tsukuba
                1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
                Tel: 81-298-53-4664
                Fax: 81-298-53-6614
                Email: hideko@biol.tsukuba.ac.jp.

FEATURES
  source        1..59
                /organism="Dictyostelium discoideum"
                /strain="AX4"
                /db_xref="taxon:44689"
                /clone="VSH63"
                /clone_11b="VS"
                /sex="mat A"
                /dev_stage="vegetative"

BASE COUNT     30 a          4 c          1 g          24 t

ORIGIN
Query Match          1.0%; Score 22.8; DB 9; Length 59;
Best Local Similarity 62.1%; Pred. No. 1.3e+06;
Matches 36; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

```

Query Match	1.0%;	Score 22.8;	DB 9;	Length 59;
Best Local Similarity	62.1%;	Pred. No. 1.3e+06;		
Matches 36;	Conservative 0;	Mismatches 22;	Indels 0;	Gaps 0;
Db 59	TTTTTTTTTATATAATATATATTTTTCATATAGATTTTTCATTCAGCTCATATGAAAA	2167		
RESULT 22				
LOCUS	BQ397088	59 bp	mRNA	linear
DEFINITION	NIISC ng25f10.x1 NICHD XGC Emb6 Silurana tropicalis cDNA clone			EST 22-MAY-2002
ACCESSION	IMAGE5384586 3', mRNA sequence.			
VERSION	BQ397088			
KEYWORDS	BQ397088.1 GI:21084775			
SOURCE	EST.			
ORGANISM	western clawed frog.			
	Silurana tropicalis			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae;			
	Xenopodinae; Silurana.			
REFERENCE	1 (bases 1 to 59)			
AUTHORS	NIH-XGC http://image.llnl.gov/image/html/xenopuslib.info.shtml.			
TITLE	National Institute of Child Health and Human Development, National			
JOURNAL	Cancer Institute, Xenopus Gene Collection			
COMMENT	Unpublished (2002)			
	Contact: Robert Strausberg, Ph.D.			
	Email: cgabbe-rc@mail.nih.gov			
	cDNA library preparation:			
	cDNA library Arrayed by: The I.M.A.G.E. Consortium/LLNL			
	DNA Sequencing by: National Institutes of Health Intramural			
	Sequencing Center (NISC)			
	Clone distribution: NCI-CGAP clone distribution information can be			
	found through the I.M.A.G.E. Consortium/LLNL at:			
	info@image.llnl.gov			
	plate: LHAM1979 row: K column: 19			
	Seq primer: -21M13 forward primer (ABI).			
FEATURES	Location/Qualifiers			
source	1..59			
	/organism="Silurana tropicalis"			
	/db_xref="taxon:8364"			
	/clone="IMAGE:5384586"			
	/clone_id="NICHD XGC Emb6"			
	/tissue_type="neurotula"			
	/dev_stage="embryo, stages 14-19"			
	/lab_host="DH10B (phage-resistant)"			
	/note="vector: pCMV-SPORT6; ccdB; Site 1: NotI; Site 2:			
	EcoRV; Cloned unidirectionally. Primer: Oligo dT. Average			
	insert size 2.1 Kb. Constructed by Invitrogen. Note: This			
	is a Xenopus Gene Collection (XGC) library."			
BASE COUNT	2 a 2 c 1 g 54 t			
ORIGIN				
Query Match	1.0%;	Score 22.8;	DB 14;	Length 59;
Best Local Similarity	62.1%;	Pred. No. 1.3e+06;		
Matches 36;	Conservative 0;	Mismatches 22;	Indels 0;	Gaps 0;
Db 59	AAATTAAGCTGATTTTAAATAATCAATCATGCGCAAAAAAACTTAAGCAAAA	1800		
RESULT 23				
LOCUS	AUD266759	51 bp	mRNA	linear
DEFINITION	AUD266759 VS Dictyostelium discoideum cDNA clone VSG725', mRNA			EST 10-MAY-2002
ACCESSION	AUD266759			
VERSION	AUD266759			
KEYWORDS	AUD266759.1 GI:20525557			
SOURCE	EST.			
ORGANISM	Dictyostelium discoideum			

REFERENCE 1 (bases 1 to 51)
 AUTHORS Urushihara,H., Morio,T., Saito,T., Koriki,E., Ochiai,H., Maeda,M.,
 TITLE Takeuchi,I., Kohara,Y. and Tanaka,Y.
 JOURNAL Population analysis of cDNAs from unicellular and multicellular
 COMMENT stages of Dictyostelium discoideum.
 Unpublished (2002)
 Contact: Hideko Urushihara
 Institute of Biological Sciences
 University of Tsukuba
 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
 Tel: 81-298-53-4664
 Fax: 81-298-53-6614
 Email: hideko@biol.tsukuba.ac.jp.
 Location/Qualifiers
 1. 51
 /organism="Dictyostelium discoideum"
 /strain="AX4"
 /db_xref="taxon:44689"
 /clone="VSG728"
 /clone_1lb="VS"
 /sex="mat A"
 /dev_stage="vegetative"
 BASE COUNT 30 a 3 c 3 g 15 t
 ORIGIN
 Query Match 1.0%; Score 22.6; DB 9; Length 51;
 Best Local Similarity 68.9%; Pred. No. 1.5e+06;
 Matches 31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
 QY 2108 TCTTTTATTAATAATATATATTTTCAATAGATTGATT 2152
 Db 49 TTTTTCATATTAATTAATATATATATATCAATATTATTGATT 5
 RESULT 24 53 bp mRNA linear EST 31-JUL-1998
 LOCUS AU006675 Schizosaccharomyces pombe late log phase cDNA
 DEFINITION Schizosaccharomyces pombe cDNA clone spc00272, mRNA sequence.
 ACCESSION AU006675
 VERSION AU006675.1 GI:3343134
 KEYWORDS EST.
 SOURCE fission yeast.
 ORGANISM Schizosaccharomyces pombe
 Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;
 Schizosaccharomycetales; Schizosaccharomycetaceae;
 Schizosaccharomyces.
 1 (bases 1 to 53)
 Moriyono,M. and Mita,K.
 Identification of expressed sequence tags of Schizosaccharomyces
 pombe
 Unpublished (1998)
 Contact: Mitsuki Moriyono
 Genome Research Group
 National Institute of Radiological Sciences
 9-1, Anagawa-4-chome, Inage-ku, Chiba, Chiba 263-8555, Japan
 Email: moriyono@nirs.go.jp.
 Location/Qualifiers
 1. 53
 /organism="Schizosaccharomyces pombe"
 /strain="972"
 /db_xref="taxon:4896"
 /clone="spc00272"
 /clone_1lb="Schizosaccharomyces pombe late log phase cDNA"
 /sex="h minus"
 /note="Vector: M13mp19; The cDNA library of
 Schizosaccharomyces pombe was prepared by cloning cDNA
 into the SmaI site of M13mp19 DNA and the direction of DNA
 sequences was not always from 5' to 3'. The cDNA data of
 Schizosaccharomyces pombe are available for searching on
 the World Wide Web. (URL, http://www.nirs.go.jp)"
 BASE COUNT 23 a 6 c 5 g 19 t

ORIGIN
 Query Match 1.0%; Score 22.6; DB 9; Length 53;
 Best Local Similarity 75.7%; Pred. No. 1.5e+06;
 Matches 28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
 QY 2110 TTTTTCATTAATAATATATATTTTCAATAGATT 2146
 Db 53 TTTTTCATTAATAATATAGTCTTTTCAATATATCATTT 17
 RESULT 25 56 bp mRNA linear EST 10-MAY-2002
 LOCUS AU264938
 DEFINITION AU264938 VS Dictyostelium discoideum cDNA clone VSP251 5', mRNA
 sequence.
 ACCESSION AU264938
 VERSION AU264938.1 GI:20523736
 KEYWORDS EST.
 SOURCE Dictyostelium discoideum.
 ORGANISM Dictyostelium discoideum
 Eukaryota; Mycetozoa; Dictyostelidia; Dictyostelium.
 1 (bases 1 to 56)
 Urushihara,H., Morio,T., Saito,T., Koriki,E., Ochiai,H., Maeda,M.,
 TITLE Takeuchi,I., Kohara,Y. and Tanaka,Y.
 JOURNAL Population analysis of cDNAs from unicellular and multicellular
 COMMENT stages of Dictyostelium discoideum
 Unpublished (2002)
 Contact: Hideko Urushihara
 Institute of Biological Sciences
 University of Tsukuba
 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
 Tel: 81-298-53-4664
 Fax: 81-298-53-6614
 Email: hideko@biol.tsukuba.ac.jp.
 Location/Qualifiers
 1. 56
 /organism="Dictyostelium discoideum"
 /strain="AX4"
 /db_xref="taxon:44689"
 /clone="VSP251"
 /clone_1lb="VS"
 /sex="mat A"
 /dev_stage="vegetative"
 BASE COUNT 36 a 2 c 0 g 16 t 2 others
 ORIGIN
 Query Match 1.0%; Score 22.6; DB 9; Length 56;
 Best Local Similarity 66.0%; Pred. No. 1.5e+06;
 Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
 QY 1742 AAATAAAGCTGATTTTAAATAATCAATGATGCAAAAAA 1788
 Db 8 AAATAAAGCTGATTTTAAATAATCAATGATGCAAAAAA 54
 RESULT 26 56 bp DNA linear GSS 13-JUL-1996
 LOCUS B03428
 DEFINITION CSRL-179A8-u CSRL flow sorted Chromosome 11 specific cosmid Homo
 sapiens genomic clone CSRL-179A8, DNA sequence.
 ACCESSION B03428
 VERSION B03428.1 GI:1412706
 KEYWORDS GSS.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 56)
 Evans,G.A., Burdick,D., Davies,C., Hahner,L., Oliver,T., Gilbert,M.,
 TITLE Jones,D., Ward,T., Gillilan,E., Schlegelman,J., Probst,S., Harris,
 J., DeFord,J., McFarland,J., Burzinski,K., Khan,M., Kupfer,K. and
 Garner,H.R.

/clone="VSD310"
 /clone_1lb="VS"
 /sex="mat A"
 /dev_stage="vegetative"
 BASE COUNT 23 a 3 c 1 g 22 t 11 others
 ORIGIN
 Query Match 1.0%; Score 22.4; DB 9; Length 60;
 Best Local Similarity 54.2%; Pred. No. 1.6e+06;
 Matches 32; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
 Oy 2062 ACAAAGAACTTACCAATGATGTTTACGCGAAACACTGATCTTTTATA 2120
 Db 1 AAAAAAATAACAATTGTTGTTTNTTTTNNAAAAAACCCNNNNNTTNTTNA 59
 RESULT 32
 AU268768 44 bp mRNA linear EST 10-MAY-2002
 LOCUS AU268768 VS Dictyostelium discoideum cDNA clone VS1483 5', mRNA
 DEFINITION
 sequence.
 ACCESSION AU268768.1 GI:20527566
 VERSION
 KEYWORDS Dictyostelium discoideum.
 SOURCE Dictyostelium discoideum
 ORGANISM Eukaryota; Mycetozoa; Dictyostelida; Dictyostelium.
 REFERENCE 1 (bases 1 to 44)
 Urushihara, H., Morio, T., Saito, T., Koriki, E., Ochiai, H., Maeda, M.,
 Takeuchi, I., Kohara, Y. and Tanaka, Y.
 Population analysis of cDNAs from unicellular and multicellular
 stages of Dictyostelium discoideum
 Unpublished (2002)
 JOURNAL Contact: Hideko Urushihara
 COMMENT Institute of Biological Sciences
 University of Tsukuba
 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
 Tel: 81-298-53-4664
 Fax: 81-298-53-6614
 Email: hideko@biol.tsukuba.ac.jp.
 FEATURES
 SOURCE Location/Qualifiers
 1..44
 /organism="Dictyostelium discoideum"
 /strain="AX4"
 /db_xref="taxon:44689"
 /clone="VS1483"
 /clone_1lb="VS"
 /sex="mat A"
 /dev_stage="vegetative"
 BASE COUNT 30 a 0 c 0 g 14 t
 ORIGIN
 Query Match 0.9%; Score 22.2; DB 9; Length 44;
 Best Local Similarity 69.8%; Pred. No. 1.8e+06;
 Matches 30; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 Oy 2108 TCTTTTATATATAATATATATTTCAATAGATTTTCA 2150
 Db 43 TTTTATATATATATATATATTTTATTTTATTTT 1
 RESULT 33
 AU268819 44 bp mRNA linear EST 10-MAY-2002
 LOCUS AU268819 VS Dictyostelium discoideum cDNA clone VS1519 3', mRNA
 DEFINITION
 sequence.
 ACCESSION AU268819.1 GI:20527617
 VERSION
 KEYWORDS Dictyostelium discoideum.
 SOURCE Dictyostelium discoideum
 ORGANISM Eukaryota; Mycetozoa; Dictyostelida; Dictyostelium.
 REFERENCE 1 (bases 1 to 44)

AUTHORS Urushihara, H., Morio, T., Saito, T., Koriki, E., Ochiai, H., Maeda, M.,
 Takeuchi, I., Kohara, Y. and Tanaka, Y.
 TITLE Population analysis of cDNAs from unicellular and multicellular
 JOURNAL stages of Dictyostelium discoideum
 COMMENT Unpublished (2002)
 Contact: Hideko Urushihara
 Institute of Biological Sciences
 University of Tsukuba
 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
 Tel: 81-298-53-4664
 Fax: 81-298-53-6614
 Email: hideko@biol.tsukuba.ac.jp.
 FEATURES
 SOURCE Location/Qualifiers
 1..44
 /organism="Dictyostelium discoideum"
 /strain="AX4"
 /db_xref="taxon:44689"
 /clone="VS1519"
 /clone_1lb="VS"
 /sex="mat A"
 /dev_stage="vegetative"
 BASE COUNT 30 a 2 c 1 g 10 t 1 others
 ORIGIN
 Query Match 0.9%; Score 22.2; DB 9; Length 44;
 Best Local Similarity 68.2%; Pred. No. 1.8e+06;
 Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
 Oy 2104 TGAATCTTTTATATATAATATATTTTCAATAGATTTT 2147
 Db 44 TAAATTTTATATATATATATTTTATTAACCTAAGATTT 1
 RESULT 34
 BF643229 52 bp mRNA linear EST 20-DEC-2000
 LOCUS BF643229
 DEFINITION NF002B08EC11062 Elcited cell culture Medicago truncatula cDNA
 clone NF002B08EC 5', mRNA sequence.
 ACCESSION BF643229
 VERSION BF643229.1 GI:11908354
 KEYWORDS EST.
 SOURCE barrel medic.
 ORGANISM Medicago truncatula
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifoliaceae;
 Medicago.
 REFERENCE 1 (bases 1 to 52)
 Torres-Jerez, I., Scott, A.D., Harris, A.R., Gonzales, R.A., Bell, C.J.,
 Flores, H.R., Inman, J.T., Weller, J.W. and May, G.D.
 Expressed Sequence Tags from the Samuel Roberts Noble Foundation -
 Center for Medicago Genomics Research
 Unpublished (2000)
 JOURNAL Contact: Dixon RA
 COMMENT Plant Biology Division
 The Samuel Roberts Noble Foundation
 2510 Sam Noble Parkway, Ardmore, OK 73402, USA
 Tel: 580 221 7302
 Fax: 580 221 7380
 Email: radixon@noble.org
 Insert Length: 52 Std Error: 0.00
 Plate: 002 row: B column: 08
 Seq primer: TCACACGGAACACGCTATGAC.
 FEATURES
 SOURCE Location/Qualifiers
 1..52
 /organism="Medicago truncatula"
 /db_xref="taxon:3880"
 /clone="NF002B08EC"
 /clone_1lb="Elcited cell culture"
 /tissue_type="Cell cultures derived from root tissues"
 /dev_stage="Cell suspensions were subcultured every 14
 days. Cells were induced six days after subculture"
 /note="Vector: Lambda Zap; Cells were induced with yeast

cell wall extracts equivalent to 50ug/ml glucose in the final concentration. Samples were taken at 0.5, 1, 12 and 24 hours after induction. Equal amounts of RNA from each time point were pooled and used for mRNA isolation."

BASE COUNT

24 a 6 c 2 g 20 t

Query Match 0.9%; Score 22.2; DB 12; Length 52;
Best Local Similarity 64.7%; Pred. No. 1.8e+06;
Matches 33; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 2114 TTTTATTAATATATATATTTTCAATGATTTTGAATTCAGCTCATTATG 2164

Db 2 TTCAATATATATATATATATATTAATTAACATTCATACATTAAAG 52

RESULT 35
TA385D03Q 53 bp DNA linear GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 385d03, reverse sequence,
DEFINITION genomic survey sequence.
ACCESSION AL498857.1 GI:11874579
VERSION AL498857.1
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei.
Bukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

REFERENCE 1 (bases 1 to 53)
AUTHORS Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, T.,
Melville, S.B., Rajandream, M.A. and Barrell, B.G.
DIRECT SUBMISSION
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nh@sanger.ac.uk
CONSTRUCTED AT THE INSTITUTE FOR GENOMIC RESEARCH (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
to give a tight size distribution (4 kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaubin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES
source
1.53
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="385d03"

BASE COUNT
19 a 4 c 8 g 22 t

Query Match 0.9%; Score 22.2; DB 17; Length 53;
Best Local Similarity 77.1%; Pred. No. 1.8e+06;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2101 ACCGATCTTTTATATATATATATATTTT 2135

Db 42 ACATGAATCATATATATATATATATATATAT 8

RESULT 36

LOCUS

DEFINITION
AA937418 54 bp mRNA linear EST 30-APR-1998
OJ09a06.s1 NCI CGAP_Mel3 Homo sapiens cDNA IMAGE:1491634 3'
similar to gb:xl7206 40S RIBOSOMAL PROTEIN S4 (HUMAN); mRNA
sequence.

ACCESSION AA937418
VERSION AA937418.1 GI:3095529
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 54)
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
unknown library type
Seq primer: -40m3 fwd. ET from Amersham.

JOURNAL

COMMENT

FEATURES

source

1.54
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1491634"
/clone_lib="NCI CGAP_Mel3"
/issue_type="metastatic melanoma to bowel"
/lab_host="DH10B"
/note="Organ: bowel (skin primary); Vector: pCMV-SPORT4;
Site 1: SalI; Site 2: NotI; Cloned unidirectionally.
Primer: Oligo dt. Average insert size 0.9 kb. Life
Technologies catalog #: 10981-017"

BASE COUNT
5 a 5 c 1 g 43 t

Qy 1760

AAAAATCAATCAATGTCGCAAAAAAACTTAAGCAATA 1802

Db 50

ATAAAGTAATTAAGCGTGAATAAAAAAAATTAATTA 8

RESULT 37
A2760065 55 bp DNA linear GSS 16-FEB-2001
LOCUS IM0553B02R Mouse 10kb plasmid UGCLM library Mus musculus genomic
DEFINITION clone UGCLM0553B02 R, DNA sequence.
ACCESSION A2760065
VERSION A2760065.1 GI:12867501
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 55)
AUTHORS Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Rellily,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A.
and Wright, D. Weiss, R.

TITLE
JOURNAL
COMMENT
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0553 row: B column: 02
Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 55.

REFERENCE
 1 (bases 1 to 58)
TITLE
 Gubin,A.N., Njoroge,J.M., Bouffard,G.G. and Miller,J.L.
JOURNAL
 Gene expression in proliferating human erythroid cells
MEDLINE
 99339981
COMMENT
 Contact: Jeffery L. Miller
 Laboratory of Chemical Biology
 National Institute of Diabetes and Digestive and Kidney Diseases
 Building 10, Room 9B17, National Institutes of Health, Bethesda, MD
 20892, USA
 Tel: 301 402 2373
 Fax: 301 435 5148
 Email: jm7@nih.gov
 DNA Sequencing and analyses by National Institutes of Health
 Intramural Sequencing Center (NISC).
 Plate: 38 row: e column: 11
 Seq primer: -21M13 forward primer (ABI).
 Location/Qualifiers

FEATURES
 source
 1..58
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="ax38e11"
 /clone_1b="Proliferating Human Erythroid Cells (LCB:ax
 1library)"
 /sex="unknown"
 /tissue_type="blood"
 /cell_type="Erythroid Cells"
 /cell_line="Primary Culture of Peripheral Blood
 Mononuclear Cells"
 /dev_stage="Progenitor; EPO responsive CD71++++"
 /lab_host="SOLR"
 /note="Organ: blood; Vector: Lambda ZAP II; Site 1: EcoRI;
 Site 2: EcoRI; 65,000 proliferating erythroid cells from
 the buffy coat of a blood donation were obtained by flow
 cytometric separation after a 5-day culture period in the
 presence of erythropoietin. Total RNA was purified from
 the sorted cell population using TRIzol reagent. RNA (0.3
 ug) was converted into double stranded cDNA using
 Clontech's Capfinder cDNA Library Construction Kit
 (Clontech) according to the manufacturer's protocol and
 cloned into EcoRI digested Lambda Zap II vector
 (Stratagene). The phage library was amplified once prior
 to in vivo excision in SOLR cells. Individual colonies
 were grown, and the cDNA inserts were sequenced in high
 throughput (NIH intramural sequencing center
 http://www.nisc.nih.gov/)."

BASE COUNT
 0 a 6 c 2 g 50 t
ORIGIN

Query Match 0.9%; Score 22.2; DB 13; Length 58;
 Best Local Similarity 69.8%; Pred. No. 1.8e+06;
 Matches 30; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Oy 1760 AAAAAATCAATCAATGTCGCAAAAAAAGCTTAAGCAAAATA 1802
 Db 47 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 5

RESULT 41
 BG943837/c 59 bp mRNA linear EST 11-JUN-2001
LOCUS
 DEFINITION
 ax42f06.x1 Proliferating Human Erythroid Cells (LCB:ax library)
ACCESSION
 BG943837
VERSION
 BG943837.1 GI:14343209
KEYWORDS
 EST.
SOURCE
 human.
ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
 1 (bases 1 to 59)

AUTHORS
 Gubin,A.N., Njoroge,J.M., Bouffard,G.G. and Miller,J.L.
TITLE
 Gene expression in proliferating human erythroid cells
JOURNAL
 Genomics 59 (2), 168-177 (1999)
MEDLINE
 99339981
COMMENT
 Contact: Jeffery L. Miller
 Laboratory of Chemical Biology
 National Institute of Diabetes and Digestive and Kidney Diseases
 Building 10, Room 9B17, National Institutes of Health, Bethesda, MD
 20892, USA
 Tel: 301 402 2373
 Fax: 301 435 5148
 Email: jm7@nih.gov
 DNA Sequencing and analyses by National Institutes of Health
 Intramural Sequencing Center (NISC).
 Plate: 42 row: f column: 06
 Seq primer: -21M13 forward primer (ABI).
 Location/Qualifiers

FEATURES
 source
 1..59
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="ax42f06"
 /clone_1b="Proliferating Human Erythroid Cells (LCB:ax
 1library)"
 /sex="unknown"
 /tissue_type="blood"
 /cell_type="Erythroid Cells"
 /cell_line="Primary Culture of Peripheral Blood
 Mononuclear Cells"
 /dev_stage="Progenitor; EPO responsive CD71++++"
 /lab_host="SOLR"
 /note="Organ: blood; Vector: Lambda ZAP II; Site 1: EcoRI;
 Site 2: EcoRI; 65,000 proliferating erythroid cells from
 the buffy coat of a blood donation were obtained by flow
 cytometric separation after a 5-day culture period in the
 presence of erythropoietin. Total RNA was purified from
 the sorted cell population using TRIzol reagent. RNA (0.3
 ug) was converted into double stranded cDNA using
 Clontech's Capfinder cDNA Library Construction Kit
 (Clontech) according to the manufacturer's protocol and
 cloned into EcoRI digested Lambda Zap II vector
 (Stratagene). The phage library was amplified once prior
 to in vivo excision in SOLR cells. Individual colonies
 were grown, and the cDNA inserts were sequenced in high
 throughput (NIH intramural sequencing center
 http://www.nisc.nih.gov/)."

BASE COUNT
 0 a 7 c 1 g 51 t
ORIGIN

Query Match 0.9%; Score 22.2; DB 13; Length 59;
 Best Local Similarity 69.8%; Pred. No. 1.8e+06;
 Matches 30; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Oy 1760 AAAAAATCAATCAATGTCGCAAAAAAAGCTTAAGCAAAATA 1802
 Db 50 AAAAAAAAAAAAAAAAAAGAGCAAAAAAAAAAAAAAAAAAAAA 8

RESULT 42
 AA014672 49 bp mRNA linear EST 21-JAN-1997
LOCUS
 DEFINITION
 mh30b01.r1 Soares mouse placenta 4bmkp13.5 14.5 Mus musculus cDNA
 clone IMAGE:443977 5', mRNA sequence.
ACCESSION
 AA014672
VERSION
 AA014672.1 GI:1475759
KEYWORDS
 EST.
SOURCE
 house mouse.
ORGANISM
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
 1 (bases 1 to 49)
 Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisels,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
 Schellenberg,K., Stepoe,M., Tan,F., Underwood,K., Moore,B.,


```

/dev_stage="20 week-post conception fetus"
/ab_host="DH10B (ampicillin resistant)"
/ab_note="Organ: Liver and Spleen; Vector: pT73D (Pharmacia)
with a modified polylinker. Site 1: Pac I; Site 2: Eco RI;
This is a subcloned version of the original Soares fetal
liver spleen INFLS library. 1st strand cDNA was primed
with a Pac I - oligo(dT) primer [5',
ACTGGAAGATTAATTAAGATCTTTTAAATCATCATGTCGCAAAAAA 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Pac I and cloned into the Pac I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M.Facima Bonaldo."

BASE COUNT      5 a      5 c      7 g      38 t
ORIGIN

Query Match      0.9%; Score 22; DB 9; Length 55;
Best Local Similarity 63.0%; Pred. No. 2e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1734 ACACAGGAAATTAACGTGATTTTAAATCATCATGTCGCAAAAAA 1787
Db 54 ACCCAAAAACAGAAATTTGAAAAACAAATTAATGAAGAGAAAAAAA 1

RESULT 45
AU264614      57 bp      mRNA      linear      EST 10-MAY-2002
LOCUS      AU264614 VS Dictyostelium discoideum cDNA clone VSD26 5', mRNA
ACCESSION      AU264614
VERSION      AU264614.1 GI:20523412
KEYWORDS      EST.
SOURCE      Dictyostelium discoideum.
ORGANISM      Dictyostelium discoideum.
REFERENCE      1 (bases 1 to 57)
AUTHORS      Urushihara,H., Morio,T., Saito,T., Koriki,E., Ochiai,H., Maeda,M.,
Tateuchi,I., Kohara,Y. and Tanaka,Y.
TITLE      Population analysis of cDNAs from unicellular and multicellular
JOURNAL      stages of Dictyostelium discoideum
COMMENT      Unpublished (2002)
CONTACT      Hideko Urushihara
INSTITUTE      Institute of Biological Sciences
UNIVERSITY      University of Tsukuba
1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8572, Japan
Tel: 81-298-53-4664
Fax: 81-298-53-6614
Email: hideko@biol.tsukuba.ac.jp.
FEATURES
Source
1. 57
/organism="Dictyostelium discoideum"
/strain="AX4"
/db_xref="taxon:44689"
/clone="VSD26"
/clone_1lb="VS"
/sex="mat A"
/dev_stage="vegetative"

BASE COUNT      42 a      1 c      2 g      12 t
ORIGIN

Query Match      0.9%; Score 22; DB 9; Length 57;
Best Local Similarity 63.0%; Pred. No. 2e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1734 ACACAGGAAATTAACGTGATTTTAAATCATCATGTCGCAAAAAA 1787
Db 4 AAAAAAAAAAGCAATTAATTAATTAATTAATTTTAAAAAAA 57

RESULT 46
BI745330/c      57 bp      mRNA      linear      EST 25-SEP-2001
LOCUS      BI745330

```

```

DEFINITION      rk9501.y1 Meloidogyne javanica egg pAMP1 v6 Chiapelli McCarter
ACCESSION      Meloidogyne javanica cDNA 5', mRNA sequence.
VERSION      BI745330
KEYWORDS      BI745330.1 GI:15767132
SOURCE      EST.
ORGANISM      root-knot nematode.
REFERENCE      Meloidogyne javanica
AUTHORS      Eukaryota; Metazoa; Nematoda; Chromadorea; Tylenchida; Tylenchina;
Tylenchoidea; Heteroderidae; Meloidogyninae; Meloidogyne.
1 (bases 1 to 57)
McCartter,J., Clifton,S., Chiapelli,B., Page,D., Martin,J., Wylie,T.,
Dante,M., Marra,M., Hillier,L., Kucada,I., Theising,B., Bowers,Y.,
Gibbons,M., Ritter,E., Bennett,J., Franklin,C., Tsagarashvili,R.,
Ronko,I., Kennedy,S., Maguire,L., Beck,C., Underwood,K., Steptoe
,M., Allen,M., Person,B., Swaller,T., Harvey,N., Schurk,R., Kohn,S.,
Shin,T., Jackson,Y., Cardenas,M., McCam,R., Waterston,R. and
Wilson,R.
The Washington Univ. Nematode EST Project, 1999
Unpublished (1999)
Contact: McCartter JP
The Washington Univ. Nematode EST Project, 1999.
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
The library was constructed by Brandi Chiapelli and Dr. James
McCarter (bochiapell@watson.wustl.edu & jmcarter@watson.wustl.edu) at
Washington University, St. Louis. DNA Sequencing by: Washington
University Genome Sequencing Center St. Louis.
location/Qualifiers
1. 57
/organism="Meloidogyne javanica"
/db_xref="taxon:6303"
/clone_1lb="Meloidogyne javanica egg pAMP1 v6 Chiapelli
McCarter"
/dev_stage="enriched for eggs"
/ab_host="DH10B"
/ab_note="Vector: PAMP1 (Gibco); The library was constructed
by Brandi Chiapelli and Dr. James McCartter at Washington
University, St. Louis. The cDNA was made by using Dynabead
oligo-dT priming (Dyna). PCR based library using a
modified protocol from the SMART PCR cDNA Synthesis Kit
from Clontech. Directionally cloned into the UDG sites of
PAMP1. Nematodes were provided by Dr. David Bird of North
Carolina State University."

BASE COUNT      26 a      1 c      4 g      26 t
ORIGIN

Query Match      0.9%; Score 22; DB 13; Length 57;
Best Local Similarity 63.0%; Pred. No. 2e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1749 ACGTGATTTTAAATTAACATCATGTCGCAAAAAAATTAAACCAATA 1802
Db 56 ACTTTTCTTTTCTTTTAAACATCATTTTATTAATAAATAATTAATCAATA 3

RESULT 47
BI842365      58 bp      mRNA      linear      EST 04-OCT-2001
LOCUS      BI842365/c
DEFINITION      f882606.y1 Zebrafish neuronal Danio rerio cDNA clone 488692 5',
mRNA sequence.
ACCESSION      BI842365
VERSION      BI842365.1 GI:15954888
KEYWORDS      EST.
SOURCE      zebrafish.
ORGANISM      Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes
; Cyprinidae; Danio.
1 (bases 1 to 58)
Clark,M., Johnson,S.T., Lehrach,H., Lee,R., Li,F., Marra,M., Eddy

```

TITLE	JOURNAL	COMMENT
The Washington Univ. Nematode EST Project, 1999		unpublished (1999)
Contact: McCarter JP		
The Washington Univ. Nematode EST Project, 1999		
Washington University School of Medicine		
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA		
Tel: 314 286 1800		
Fax: 314 286 1810		
Email: est@watson.wustl.edu		
The library was constructed by Claire Murphy and Dr. James McCarter		
at Washington University, St. Louis. DNA Sequencing by: Washington		

```

/organism="Arabidopsis thaliana"
/strain="Columbia 0"
/db_xref="taxon:3702"
/clone="GK-026E08-01.3759"

```

/clone lib="Arabidopsis thaliana T-DNA insertion lines"
/note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pAC106. The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. Sequences displaying significant similarity to the A. thaliana nuclear genome sequence were processed for submission. T-DNA derived sequences were removed"

BASE COUNT 23 a 10 c 10 g 15 t

ORIGIN

Query Match 0.9%; Score 22; DB 17; Length 58;
Best Local Similarity 63.0%; Pred. No. 2e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 903 ATTCAGTGGGAGATGAGAAAGAAACATTGACAAATCTCAATGTAAGTACT 956
Db 4 ATTCATTGTTAATATATAGCAAAAGAGGTGGCAAACTGCAATGATGACT 57

RESULT 50
AL779773 60 bp mRNA linear EST 25-JUN-2002
LOCUS AL779773 XGC-neurula Silurana tropicalis cDNA clone TNeu078a06 5',
DEFINITION mRNA sequence.

ACCESSION AL779773
VERSION AL779773.1 GI:21565477
KEYWORDS EST.
SOURCE western clawed frog.
ORGANISM Silurana tropicalis

Bukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae; Xenopodinae; Silurana.

REFERENCE 1 (bases 1 to 60)
AUTHORS Taylor,R., Ashurst,J.L., Croning,M.D.R., Zorn,A.M. and Rogers,J.
TITLE Sanger Xenopus tropicalis EST project 2002
JOURNAL Unpublished (2001)
COMMENT Contact: Taylor R

Sanger Centre
Hinxton, Cambridgeshire, CB10 1SA, UK
Email: trop@sanger.ac.uk
Sanger Xenopus tropicalis EST project 2001
TROPCALIS_SEQUENCE ID: TNeu078a06.p1cSP6
Sequencing primer: P1cSP6
This sequence is from a Xenopus Gene Collection (XGC) library constructed by Aaron M. Zorn.
location/Qualifiers

FEATURES
source 1.60
/organism="Silurana tropicalis"
/db_xref="taxon:8364"
/clone="TNeu078a06"
/clone_lib="XGC-neurula"
/dev_stage="neurula"
/lab_host="Escherichia coli DH10B"
/note="Vector: pCS107; Site 1: EcoRI; Site 2: NotI; cDNA was oligo dt primed from 5ug of poly A+ RNA from neurula. EcoRI-NotI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NotI at the 3' end."

BASE COUNT 41 a 8 c 7 g 4 t

ORIGIN

Query Match 0.9%; Score 22; DB 9; Length 60;
Best Local Similarity 67.4%; Pred. No. 2e+06;
Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1760 AAAAAATCAATCGTGCAGAAAAAAGCTTAAGCAAAATAGTA 1805
Db 14 AAAAAATGAAAAAGAGAAAGCAAAAAAAGCAAAAAAATA 59

RESULT 51

BU059311 38 bp mRNA linear EST 11-DEC-2001
LOCUS BU059311 NIBB Mochii normalized Xenopus tailbud library Xenopus
DEFINITION laevis cDNA clone XL062d07 5', mRNA sequence.
ACCESSION BU059311
VERSION BU059311.1 GI:17490829
KEYWORDS EST.
SOURCE African clawed frog.
ORGANISM Xenopus laevis

REFERENCE 1 (bases 1 to 38)
AUTHORS Kityayama,A., Teraoka,C., Mochii,M., Ueno,N., Shin-i,T. and Kohara
Y.

Expressed genes in X. laevis embryo
Unpublished (2001)
Contact: Tadao Shin-i
Center For Genetic Resource Information
National Institute of Genetics
111 Yata, Mishima, Shizuoka 411-8540, Japan
Tel: 81-559-81-6856
Fax: 81-559-81-6855
Email: tshini@genes.nig.ac.jp.

location/Qualifiers

1.38
/organism="Xenopus laevis"
/db_xref="taxon:8355"
/clone="XL062d07"
/clone_lib="NIBB Mochii normalized Xenopus tailbud library"
/tissue_type="whole embryo"
/dev_stage="stage 25"
/note="Vector: pBSR3; Site 1: NotI; Site 2: EcoRI; cDNAs were oligo-dt primed and directionally cloned. Staging according to Newkooop and Faber. Library is substracted and was constructed by N. Garrett and A.M. Zorn, (Wellcome/CRC Institute)."

BASE COUNT 15 a 1 c 1 g 18 t 3 others

ORIGIN

Query Match 0.9%; Score 21.8; DB 13; Length 38;
Best Local Similarity 72.2%; Pred. No. 2.3e+06;
Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 2108 TCTTTTATATATATATATATATATTTTCAATGGA 2143
Db 1 TTTTATTTTAAATTAANCGTTTAAANAAA 36

RESULT 52
BU057533 46 bp mRNA linear EST 10-DEC-2001
LOCUS BU057533 NIBB Mochii normalized Xenopus tailbud library Xenopus
DEFINITION laevis cDNA clone XL104f09 5', mRNA sequence.
ACCESSION BU057533
VERSION BU057533.1 GI:17479603
KEYWORDS EST.
SOURCE African clawed frog.
ORGANISM Xenopus laevis

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae; Xenopodinae; Xenopus.

REFERENCE 1 (bases 1 to 46)
AUTHORS Kityayama,A., Teraoka,C., Mochii,M., Ueno,N., Shin-i,T. and Kohara
Y.

Expressed genes in X. laevis embryo
Unpublished (2001)
Contact: Tadao Shin-i
Center For Genetic Resource Information
National Institute of Genetics
111 Yata, Mishima, Shizuoka 411-8540, Japan
Tel: 81-559-81-6856

WashU-HHMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:681245
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev1 ET from Amersham
High quality sequence stop: 1.

FEATURES

source

```
1. .49
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone_id="IMAGE:1310949"
/clone_1lb="Stratagene mouse macrophage (#937306)"
/tissue_type="macrophage"
/dev_stage="MEH1-3 cell line"
/lab_host="SOLR (kanamycin resistant)"
/notes="Organ: blood; Vector: pBluescript SK-; Site 1:
ECORI; Site 2: XhoI; Cloned unidirectionally. Primer:
0.190 dt. MEH1-3 cell line. Average insert size: 1.5 kb;
Uni-ZAP XR Vector: ~5' adaptor sequence: 5' GAATTCGGCGACGAG
3' ~3' adaptor sequence: 5' CTCGAGTTT TTT TTT TTT TTT TTT 3' "
```

BASE COUNT

```
9 a 12 c 15 g 13 t
```

ORIGIN

Query Match
Best Local Similarity 65.3%; Score 21.8; DB 9; Length 49;
Matches 33; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

```
QY 1903 TTAAAGGTAGATGTTGCTGTAATCTGAGTGTGATGTGACAGA 1951
Db 1 TGAGGTCGCGATGCTGCTGACACTTGTGACTTACTGATGCCGA 49
```

RESULT 56
AA823664 52 bp mRNA linear EST 17-FEB-1998
LOCUS
DEFINITION
IMAGE:1125905.5, similar to gb:U03161 SERUM RESPONSE FACTOR (HUMAN)
); mRNA sequence.

ACCESSION
AA823664
VERSION
AA823664.1 GI:2893532

SOURCE

house mouse.
EST.

REFERENCE
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 52)
Marras, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.

TITLE
JOURNAL
COMMENT
The WashU-HHMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810

Email: mouseest@wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:615241.

FEATURES
source
1. .52
Location/Qualifiers
/organism="Mus musculus"

```
/strain="C57BL/6J x DBA/2J F1"
/db_xref="taxon:10090"
/clone_id="IMAGE:1125905"
/clone_1lb="Knuckles Solter mouse 2 cell"
/tissue_type="embryo"
/dev_stage="2-cell"
/lab_host="DH10B"
/notes="Organ: embryo; Vector: pBluescribe (modified);
Site 1: Mui; Site 2: SalI; Cloned unidirectionally from
mRNA prepared from 13,500 2-cell stage embryos. Primer:
SalI (dt): 5'-CGGTGACGCGTGGACGCTTTT TTT TTT TTT 3'.
were cloned into the Mui/Sal sites of a modified
pBluescribe vector using commercial linkers (NEB).
Average insert size: 1.2 kb."
```

BASE COUNT

```
26 a 3 c 6 g 17 t
```

ORIGIN

Query Match
Best Local Similarity 92.0%; Score 21.8; DB 9; Length 52;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
QY 2117 TATATAATATATATTTTCAATA 2141
Db 21 TCTATAATAATATATTTTAAATA 45
```

RESULT 57
BH792320 52 bp DNA linear GSS 02-APR-2002
LOCUS
DEFINITION
SALK_063406.23.95.x Arabidopsis thaliana TDNA insertion lines
Arabidopsis thaliana genomic clone SALK_063406.23.95.x, DNA
sequence.

ACCESSION
BH792320
VERSION
BH792320.1 GI:19888967
KEYWORDS
GSS.

SOURCE
thale cress.
Arabidopsis thaliana

REFERENCE
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (bases 1 to 52)
Alonso, J.M., Leisner, T.J., Barajas, P., Chen, H., Cheuk, R., Gadriab,
C., Jeske, A., Karnes, M., Kim, C.J., Parker, H., Prednis, L., Shinn, P.,
Zimmerman, J. and Ecker, J.R.

A Sequence-Indexed Library of Insertion Mutations in the
Arabidopsis Genome

Unpublished (2001)
Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
Tel: 858 453 4100 X1752
Fax: 858 558 6379

Email: ecker@salk.edu
This is single pass sequence recovered from the left border of
TDNA.

Class: TDNA tagged.
Location/Qualifiers

1. .52
/organism="Arabidopsis thaliana"
/strain="Columbia 0"
/db_xref="taxon:3702"

/clone_id="SALK_063406.23.95.x"
/clone_1lb="Arabidopsis thaliana TDNA insertion lines"
/notes="PCR was performed on Arabidopsis thaliana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used can
be found at http://signal.salk.edu/tdna_protocols.html"

BASE COUNT
15 a 18 c 10 g 9 t

ORIGIN

Query Match 0.9%; Score 21.8; DB 17; Length 52;
 Best Local Similarity 78.8%; Pred. No. 2.3e+06;
 Matches 26; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1321 ATCCGATCCTCGAAGTATTATGCGGCCCA 1353
 DB 20 ACCCTAACTCCTCGAAGTAAATGAGGCCCA 52

RESULT 58 A0258750

LOCUS A0258750 54 bp mRNA linear EST 25-APR-2002
 DEFINITION A0258750 3'-directed mouse cDNA library Mus musculus cDNA clone
 BDD0013612 3', mRNA sequence.

ACCESSION A0258750
 VERSION A0258750.1 GI:20324614
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE Kato, K. and Matoba, R.
 AUTHORS Generation of expressed sequence tags from mouse brain
 TITLE Unpublished (2002)
 JOURNAL Contact: Kikuya Kato
 COMMENT Graduate School of Biological Sciences
 Nara Institute of Science and Technology
 8916-5 Takayama, Ikoma, Nara 630-0101, Japan
 Tel: 81-743-72-5581
 Fax: 81-743-72-5589
 Email: kkatoc@bs.aisit-nara.ac.jp,
 URL: http://love2.aisit-nara.ac.jp/BS/index.html.

FEATURES source

1..54
 /organism="Mus musculus"
 /db_xref="taxon:10090"
 /clone="BDD0013612"
 /clone_lib="3'-directed mouse cDNA library"
 /tissue_type="brain"
 /note="Vector: pGEM-T-easy"
 BASE COUNT 18 a 7 c 7 g 21 t 1 o c h e r s
 ORIGIN

Query Match 0.9%; Score 21.8; DB 9; Length 54;
 Best Local Similarity 70.7%; Pred. No. 2.2e+06;
 Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2099 CAACCTGAATCTTTTATATATAATATATATTTTCAA 2139
 DB 14 CGACCTGATTTTGTGTTAATAATAAGTTTGATATAA 54

RESULT 59
 A1888083 55 bp mRNA linear EST 01-SEP-1999
 LOCUS A1888083/3
 DEFINITION W029607.x1 NCI_CGAP_Ur4 Homo sapiens cDNA clone IMAGE:2437404 3',
 mRNA sequence.
 ACCESSION A1888083
 VERSION A1888083.1 GI:5593247
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Straubeberg, Ph.D.
 Email: cgaps-romail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.

Emmert-Buck, M.D., Ph.D.
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 www-bio.llnl.gov/bdrip/image/image.html
 Seq primer: -400p from Gibco.

FEATURES source

1..55
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:2437404"
 /clone_lib="NCI_CGAP_Ur4"
 /tissue_type="serous papillary carcinoma, high grade, 2
 pooled tumors"
 /lab_host="DH10B"
 /note="Organ: uterus; Vector: pCMV-SPORT6; Site_1: SalI;
 Site_2: NotI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.48 kb. Life Technologies catalog #: 11542-016"
 BASE COUNT 20 a 2 c 9 g 24 t

Query Match 0.9%; Score 21.8; DB 9; Length 55;
 Best Local Similarity 70.7%; Pred. No. 2.2e+06;
 Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2101 ACCGATCCTTTTATATATAATATATATTTTCAA 2141
 DB 45 ACCGAAATGCTCTACTACAAATTAACATATATTAATA 5

RESULT 60
 A2331030 55 bp DNA linear GSS 29-SEP-2000
 LOCUS A2331030
 DEFINITION IM0056G09R Mouse 10kb plasmid UGCGIM library Mus musculus genomic
 clone UGCGIM0056G09 R, DNA sequence.
 ACCESSION A2331030
 VERSION A2331030.1 GI:10393153
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 55)
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacom, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, B., Pedersen, T., Relilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

JOURNAL COMMENT

Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0056 row: G column: 09
 Seq primer: CACACAGGAACAGCATGACC
 Class: plasmid ends
 High quality sequence stop: 55.

FEATURES source

1..55
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UGCGIM0056G09"
 /clone_lib="Mouse 10kb plasmid UGCGIM library"

IMAGE:1193553 5', mRNA sequence.
 AA726911
 AA726911.1 GI:2744618
 EST
 KEYWORDS
 SOURCE
 ORGANISM
 Mus musculus
 house mouse.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 59)
 Mairr,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
 Schellender,K., Scepcoe,M., Tan,F., Underwood,K., Moore,B.,
 Thelning,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
 Waterson,R.
 The WashU-HMNI Mouse EST Project
 Unpublished (1996)
 CONTACT: Mairr M/Mouse EST Project
 WashU-HMNI Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@washington.wustl.edu
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:640649
 Seq primer: -28ml3 rev1 ET from Amersham.
 Location/Qualifiers
 1..59
 /organism="Mus musculus"
 /db_xref="taxon:10090"
 /clone="IMAGE:1193553"
 /clone_1lb="Stratagene mouse Tcell 937311"
 /rname_type="Tcell"
 /dev_stage="M30 CD4+ cells"
 /lab_host="SOLR (kanamycin resistant)"
 /note="Organ: blood; Vector: pBluescript SK-; Site_1:
 EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer:
 Oligo dT. M30 CD4+ cells. Average insert size: 1.0 kb;
 Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GATTTCGCGACGCGAG
 3' ~3' adaptor sequence: 5' CTCGAGTTTGTTTTGTTTT 3'"

BASE COUNT
 31 a 4 c 4 g 20 t
 ORIGIN

Query Match 0.9%; Score 21.8; DB 9; Length 59;
 Best Local Similarity 61.4%; Pred. No. 2.2e+06;
 Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 2112 TTTTATATATAATATATATTTTCAATAGATTGTTGATTCAGCTCATTAAGAAA 2168
 Db 59 TTTTATATATAATATATATTTTCAATAGATTGTTGATTCAGCTCATTAAGAAA 3

RESULT 64
 AA547914 60 bp mRNA linear EST 22-SEP-1997
 AA547914
 LOCUS
 DEFINITION
 M30D6V2G01T3 Brugia malayi day 6 post-infection third stage larvae
 SMW96MLW-Bml3d6 Brugia malayi cDNA clone 3D6V2G01 5', mRNA
 sequence.
 AA547914
 AA547914.1 GI:2315115
 EST
 KEYWORDS
 SOURCE
 ORGANISM
 Brugia malayi.
 Eukaryota; Metazoa; Chordata; Chromadorea; Spirurida; Filarioidea;
 Onchocercidae; Brugia.
 1 (bases 1 to 60)
 Blaxter,M.L., Waterfall,M., Daub,J., Lizotte-Waniewski,M., Baron,L.
 and Jones,S.J.
 Genes expressed in day six post-infection, third stage larvae of
 Brugia malayi
 Unpublished (1997)
 CONTACT: Blaxter ML

Institute of Cell, Animal and Population Biology
 University of Edinburgh
 Ashworth Labs, King's Buildings, West Mains Road, Edinburgh, EH9
 3JT, UK.
 Tel: +44 131 650 6760
 Fax: +44 131 670 5450
 Email: mark.blaxter@ed.ac.uk
 The ABI trace of this sequence can be viewed at
 http://www.sanger.ac.uk/Brugia/3D6/M30D6V2G01T3.html
 Seq primer: T3.
 Location/Qualifiers
 1..60
 /organism="Brugia malayi"
 /strain="TRS Labs"
 /db_xref="taxon:6279"
 /clone_1lb="3D6V2G01"
 /clone_1lb="Brugia malayi day 6 post-infection third stage
 larvae-SMW96MLW-Bml3d6"
 /sex="mixed"
 /dev_stage="third stage larvae, six days after infection"
 /lab_host="E. coli XL1-Blue"
 /note="Vector: lambdaZapR (Unizap XR); Site_1: Eco R I
 (5' end); Site_2: Xho I (3' end); Brugia malayi is a
 lymphatic filarial nematode parasite of humans. mRNA was
 prepared from third stage larvae of Brugia malayi isolated
 from the peritoneal cavity of birds six days after
 infection. The mRNA was converted to double stranded cDNA
 using reverse transcriptase and oligo(dT) followed by
 RNase H and DNase I. The library had 2 x 10⁵ independent
 recombinants and average insert size was 900 base pairs.
 The library was constructed by Michelle Lizotte-Waniewski.
 The library is available from The Filarial Genome Project
 Resource Center; contact Dr. S.A. Williams, Clark Science
 Center, Smith College, Northampton, MA 01063 USA phone +1
 413 585 3826 fax +1 413 585 3786 email genome@smith.edu."

BASE COUNT
 14 a 0 c 2 g 44 t
 ORIGIN

Query Match 0.9%; Score 21.8; DB 9; Length 60;
 Best Local Similarity 70.7%; Pred. No. 2.2e+06;
 Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2111 TTTTATATATAATATATATTTTCAATAGATTGTTGAT 2151
 Db 12 TGTATATAATATATATATATTTTATATGTTTATAT 52

RESULT 65
 BE896253 45 bp mRNA linear EST 20-OCT-2000
 BE896253
 LOCUS
 DEFINITION
 601438976P1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3923778 5',
 mRNA sequence.
 BE896253
 BE896253.1 GI:10360469
 EST
 KEYWORDS
 SOURCE
 ORGANISM
 Homo sapiens
 human.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 45)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgabs-r@mail.nih.gov
 Tissue Procurement: ATCC/DCID/DTF
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: LLA9760 row: h column: 19

Plate: 44 row: e column: 07
Seq primer: M13R1 reverse primer (ABI)
Location/Qualifiers

FEATURES
SOURCE

1. .54
/organism="Mus musculus"
/strain="BALB/c"
/db_xref="taxon:10090"
/clone="g144e07"
/clone_lib="Mouse Organ of Corti cDNA plinescript"
/sex="male and female"
/stage="Post natal day 5 to 13"
/note="Organ: Organ of Corti; Vector: pBluescript; The organ of Corti (OC) was fine dissected from a total of 386 OC as follows: 102 samples from post-natal (P) day 5; 72 from P6; 60 from P7; 46 from P8; 18 from P9; 20 from P10; 14 from P12 and 24 from P13. After killing animals by cervical dislocation followed by decapitation, the bulla was removed and opened in Leibowitz medium. The bony capsule of the cochlea was chipped away, stria vascularis and spiral ligament were removed and the sensory epithelium was carefully dissected out of the modiolus. Total RNA was extracted using the micro Fasttrack kit (catalog # K1593-02; Invitrogen, Carlsbad, CA), according to manufacturer's instructions. Reverse transcription and library construction were carried out with the Uni-Zap XR vector kit (catalog # 237211, Stratagene) and Uni-Zap XR Gigapack III Gold Cloning kit (catalog # 237612), both from Stratagene (La Jolla, CA, USA), according to manufacturer's instructions. Briefly: 1.5 ug mRNA was reverse transcribed using a hybrid oligo(dT) linker-primer that contains an Xho I site. First strand synthesis was primed with the linker-primer and transcribed using Moloney murine leukemia virus reverse transcriptase (MMLV-RT) and 5-methyl dCTP. The second strand was synthesized with DNA polymerase and RNase H. Complementary DNA was blunt ended with Pfu DNA polymerase, ligated with EcoR I adapters in the presence of ligase and digested with Xho I. The cDNA was sequentially size fractionated over Pharmacia Size Sep400 (Pharmacia, Uppsala, Sweden) and Clontech Chroma Spin-1000 (Clontech, Palo Alto, CA) columns to enrich for cDNAs greater than 400bp and 1000 bp, respectively. The cDNA was then directionally ligated to the Uni-Zap XR vector, which had been predigested with EcoR I and Xho I. The phagemid was packaged with Gigapack III Gold and upon titration on XL1 Blue MRF' cells, the yield of the phage library was estimated to be 11,100,000 recombinants. Stratagene's Exassist interference resistance helper phage (catalogue # 211203) was adopted to rescue plasmid DNA from the phages. Upon plating of the rescued library, individual cDNA clones were selected and grown in 96-well, 2 ml growth plate. Plasmid DNA was purified from 200 ul of saturated culture with the Concert96(TM) plasmid purification kit (Invitrogen, Carlsbad, CA) as instructed by the manufacturer. ESTs from the 5' end of the cDNA clones were generated with the universal M13 reverse primer (CAGGAAACGTAAGACC) and 25x strength BigDye terminator sequencing chemistry (Applied Biosystems, Foster City, CA). Sequencing reactions were performed on MJ Tetrad thermal cyclers (MJ Research, Waltham, MA), and analyzed on 3700 automated capillary sequencers using POPs polymer (Applied Biosystems, Foster City, CA). The frequency distribution of the library is as follows: 72% of genes have 1 copy; 14.3% 2; 12% 3-10; 1.4% 11-50 and 0.1% 51-150. As to gene function, 45% of genes are present in GenBank and have known function; 23% have hits in GenBank, but do not have assigned function; 12% are uncharacterized ESTs and 20% are unidentified."

BASE COUNT
ORIGIN

16 a 9 c 26 g 3 t
Query Match 0.9%; Score 21.6; DB 14; Length 54;
Best Local Similarity 63.5%; Pred. No. 2.5e+06;
Matches 33; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Oy 117 AGACCTGACAGCAGAGAGCGGCTCTGAGATGACTGGAGAGCGG 168
Db 3 AGACGGGAGGAGCACCCTGACAGAGCGCTGTGCAGAGAGAGAGAGGAG 54

RESULT 69
BH846951
LOCUS
DEFINITION
BH846951 54 bp DNA linear GSS 13-JUN-2002
SALK_012126.50.20.x Arabidopsis thaliana TDNA insertion lines
Arabidopsis thaliana genomic clone SALK_012126.50.20.x, DNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
GSS.
BH846951.1 GI:21417822
thale cress.
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
1 (bases 1 to 54)
Alonso, J.M., Lelise, T.J., Barajas, P., Chen, H., Cheuk, R., Gadrinab, C., Jeske, A., Karnes, M., Kim, C.J., Parker, H., Prednis, L., Shinn, P., Zimmerman, J., and Ecker, J.R.
A Sequence-Indexed Library of Insertion Mutations in the Arabidopsis Genome
Unpublished (2001)
Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
Tel: 858 453 4100 x1752
Fax: 858 558 6379
Email: ecker@salk.edu
This is single pass sequence recovered from the left border of TDNA.
Class: TDNA tagged.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

FEATURES
SOURCE
1. .54
/organism="Arabidopsis thaliana"
/strain="Columbia 0"
/db_xref="taxon:3702"
/clone="SALK_012126.50.20.x"
/clone_lib="Arabidopsis thaliana TDNA insertion lines"
/note="PCR was performed on Arabidopsis thaliana lines each of which contains one or more TDNA insertion elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence, at the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tdna_protocols.html"

BASE COUNT 19 a 2 c 5 g 28 t
ORIGIN

Query Match 0.9%; Score 21.6; DB 17; Length 54;
Best Local Similarity 68.2%; Pred. No. 2.5e+06;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Oy 2111 TTTTATATATATATATATATATTTTCAATGATTTTGATCA 2154
Db 7 TTTTATATATATATATATATTTTCTAAATTAATGTTATATTTTA 50

RESULT 70
AL786691 55 bp mRNA linear EST 27-JUN-2002
LOCUS
DEFINITION
AL786691 XGC-neurula silurana tropicalis cDNA clone TNeu09em20 5', mRNA sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
AL786691.1 GI:21572395
EST.
western clawed frog.
Silurana tropicalis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

ORGANISM
Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes
; Cyprinidae; Danio.
1 (bases 1 to 58)

REFERENCE
AUTHORS
Clark,M., Johnson,S.L., Lehrach,H., Lee,R., Li,F., Marra,M., Eddy
,S., Hillier,L., Kucaba,T., Martin,D., Beck,C., Wylie,T., Underwood
,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B.,
Swaller,T., Gibbons,M., Page,D., Harvey,N., Schurk,R., Ritter,E.,
Kohn,S., Shih,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R.
and Wilson,R.

TITLE
JOURNAL
COMMENT
Washu Zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbratfish@wustl.edu
cDNA Library construction by: Joe Barnes and Steve Johnson. DNA
Sequencing by: Washington University Genome Sequencing Center Clone
distribution: Research Genetics web address:
<http://www.researchgenetics.com/>
Putative full length read
The vector to vector length is 59
Seq primer: T3 ET from Amersham.
Location/Qualifiers
1..58
/organism="Danio rerio"
/db_xref="taxon:7955"
/clone="4962547"
/clone_1ib="Zebrafish SJD day 8 fin regeneration"
/sex="male"
/tissue_type="fin, 8-day regeneration"
/lab_host="DH10B"
/note="Vector: pAMP1, Site 1: EcoRI, Site 2: NotI. First
strand cDNA synthesis was primed using oligo-dT on
magnetic beads with an additional primer
5'-ggcgccgtatagcactacacta-tagg-3'. Second strand
synthesis was a 3-cycle PCR using the primers
5'-ggcgccgtatagcactacacta-tagg-3' and
5'-aacgagtggtacacagcagagctt-ttttttttttt-3'. cDNA
was subsequently amplified in a 7-cycle PCR with the
following primers: 5'-ggcgccgtatagcactacacta-tagg-3' and
5'-aacgagtggt-acacacgacg. Deoxy-UMP adaptors were added in
a third PCR (5 cycles) and the primers
5'-caucaucaucaugccgtatagcactacacta-tagg-3' and
5'-cucaucaucaagcagtggtacacagcagagctt-3'. Ends were
treated with uracil DNA glycosylase and product with 3'
overhangs was annealed to complementary ends of pAMP1.
Insert can be excised using EcoRI and NotI. Library
constructed by Joe Barnes and Steve Johnson (Washington
University)."

BASE COUNT
41 a 0 c 5 g 12 t
ORIGIN

Query Match
Best Local Similarity 63.5%; Pred. No. 2.5e+06;
Matches 33; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Qy 2110 TTTTATTAATAATATTTTCAATAGATTTTGAATTCAGCTCATT 2161
|||||
Db 58 TTTTATTAATAATATTTTCAATAGATTTTGAATTCAGCTCATT 7

RESULT 74
BI709260/c 58 bp mRNA linear EST 19-SEP-2001
LOCUS f662b03.y1 Zebrafish SJD day 8 fin regeneration Danio rerio cDNA
DEFINITION clone 5072212 5', mRNA sequence.
ACCESSION BI709260
VERSION BI709260.1 GI:15684955
KEYWORDS EST.
SOURCE zebrafish.

ORGANISM
Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes
; Cyprinidae; Danio.
1 (bases 1 to 58)

REFERENCE
AUTHORS
Clark,M., Johnson,S.L., Lehrach,H., Lee,R., Li,F., Marra,M., Eddy
,S., Hillier,L., Kucaba,T., Martin,D., Beck,C., Wylie,T., Underwood
,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B.,
Swaller,T., Gibbons,M., Page,D., Harvey,N., Schurk,R., Ritter,E.,
Kohn,S., Shih,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R.
and Wilson,R.

TITLE
JOURNAL
COMMENT
Washu Zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbratfish@wustl.edu
cDNA Library construction by: Joe Barnes and Steve Johnson. DNA
Sequencing by: Washington University Genome Sequencing Center Clone
distribution: Research Genetics web address:
<http://www.researchgenetics.com/>
Putative full length read
The vector to vector length is 59
Seq primer: T3 ET from Amersham.
Location/Qualifiers
1..58
/organism="Danio rerio"
/db_xref="taxon:7955"
/clone="5072212"
/clone_1ib="Zebrafish SJD day 8 fin regeneration"
/sex="male"
/tissue_type="fin, 8-day regeneration"
/lab_host="DH10B"
/note="Vector: pAMP1, Site 1: EcoRI, Site 2: NotI. First
strand cDNA synthesis was primed using oligo-dT on
magnetic beads with an additional primer
5'-ggcgccgtatagcactacacta-tagg-3'. Second strand
synthesis was a 3-cycle PCR using the primers
5'-ggcgccgtatagcactacacta-tagg-3' and
5'-aacgagtggtacacagcagagctt-ttttttttttt-3'. cDNA
was subsequently amplified in a 7-cycle PCR with the
following primers: 5'-ggcgccgtatagcactacacta-tagg-3' and
5'-aacgagtggt-acacacgacg. Deoxy-UMP adaptors were added in
a third PCR (5 cycles) and the primers
5'-caucaucaucaugccgtatagcactacacta-tagg-3' and
5'-cucaucaucaagcagtggtacacagcagagctt-3'. Ends were
treated with uracil DNA glycosylase and product with 3'
overhangs was annealed to complementary ends of pAMP1.
Insert can be excised using EcoRI and NotI. Library
constructed by Joe Barnes and Steve Johnson (Washington
University)."

BASE COUNT
41 a 0 c 5 g 12 t
ORIGIN

Query Match
Best Local Similarity 63.5%; Pred. No. 2.5e+06;
Matches 33; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Qy 2110 TTTTATTAATAATATTTTCAATAGATTTTGAATTCAGCTCATT 2161
|||||
Db 58 TTTTATTAATAATATTTTCAATAGATTTTGAATTCAGCTCATT 7

RESULT 75
BI496827 59 bp mRNA linear EST 28-AUG-2001
LOCUS f1126f02.w1 Morton Fetal Cochlea Homo sapiens cDNA clone
DEFINITION IMAGE:2538387 3', mRNA sequence.
ACCESSION BI496827
VERSION BI496827.1 GI:15336171
KEYWORDS EST.

```

SOURCE          Homo sapiens human.
ORGANISM        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
REFERENCE       Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS        1 (bases 1 to 59)
                Robertson,N.G., Khetarpal,U., Gutierrez-Espeleta,G.A., Bieber,F.R.
                and Morton,C.C.
TITLE          Isolation of novel and known genes from a human fetal cochlear cDNA
                library using subtractive hybridization and differential screening
JOURNAL        Genomics 23, 42-50 (1994)
MEDLINE        95130111
COMMENT        Contact: Morton, C. C.
                Departments of Pathology and Obstetrics, Gynecology and
                Reproductive Biology
                Brigham and Women's Hospital
                75 Francis Street, Harvard Medical School, Boston, MA 02115, USA
                Tel: 617 732 7980
                Fax: 617 738 6996
                Email: ccmorton@rics.bwh.harvard.edu
                DNA sequencing and analyses were performed by National Institutes
                of Health Intramural Sequencing Center (NISC; see
                http://www.nisc.nih.gov/).
                This clone is available royalty-free through LBNL; contact the
                IMG6 Consortium (info@img6.lbnl.gov) for further information.
                Plate: LAM6322 row: L column: 4
                Seq primer: T7 primer.
FEATURES
  source
    1..59
    /organism="Homo sapiens"
    /db_xref="taxon:9606"
    /clone="IMAGE:2538387"
    /clone_1ib="Morton Fetal Cochlea"
    /tissue_type="Cochlea"
    /dev_stage="16-22 week fetus"
    /lab_host="SOLR cells (kanamycin resistant)"
    /note="Organ: ear; Vector: pBluescript SK-; Site 1: EcorI;
    Site 2: XhoI; Reference: Genomics 23, 42-50 (1994) Cloned
    unidirectionally. Primer: Oligo dt. Fetal cochlea, normal.
    37% of inserts <0.5 kb, 56% 0.5-1.0 kb, 7% >1 kb. Uni-ZAP
    XR vector. Library constructed by N. Robertson, C. Morton.
    -5' adaptor sequence: 5' GAATTCGACACGAG 3' -3' adaptor
    sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3'"
BASE COUNT      9 a 11 c 8 g 31 t
ORIGIN
Query Match    0.9%; Score 21.6; DB 13; Length 59;
Best Local Similarity 85.7%; Pred. No.2.5e+06;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 2108 TCTTTTATATATAATATATATATTTT 2135
          |||||
Db 24 TTTTATATATATATATATATGATTTTAT 51
RESULT 76
BG348123/c      60 bp mRNA linear EST 28-FEB-2001
LOCUS          de78905.Y1 Kirschner embryo St10 14 Xenopus laevis cDNA clone
DEFINITION     IMAGE:3518001 5', mRNA sequence.
ACCESSION      BG348123
VERSION        BG348123.1 GI:13168549
KEYWORDS       EST.
SOURCE         African clawed frog.
ORGANISM       Xenopus laevis
REFERENCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS        Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
                Xenopodinae; Xenopus.
                1 (bases 1 to 60)
                Clifton,S., Johnson,S.L., Blumberg,B., Song,J., Hillier,L., Pape,D.,
                Martin,J., Wylie,T., Underwood,K., Theising,B., Bowers,Y., Person
                B., Gibbons,M., Harvey,N., Ritter,E., Jackson,Y., McCann,R.,
                Waterston,R. and Wilson,R.
                Maehn Xenopus EST project, 1999

```

```

JOURNAL- Unpublished (1999)
COMMENT- Contact: Sandy Clifton, Ph.D.
        Mashu Xenopus EST project, 1999
        Washington University School of Medicine
        4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
        Tel: 314 286 1800
        Fax: 314 286 1810
        Email: east@wustl.edu
        Library constructed by M. Kirschner (Harvard Medical School). DNA
        Sequencing by: Washington University Genome Sequencing Center
        Clone distribution: Xenopus clones from this library are available
        through the I.M.A.G.E. Consortium/LNL at: info@image.lnl.gov
        Seq primer: -40BP from GIBCO.

FEATURES
    SOURCE
        1..60
        /organism="Xenopus laevis"
        /db_xref="taxon:8355"
        /clone="IMAGE:3518001"
        /clone_1lb="Kirschner embryo St10 14"
        /tissue_type="pooled embryos (stage 10-14)"
        /db_host="DB108 (phage-resistant)"
        /note="Vector: PCS2+; Site 1: NotI; Site 2: SalI;
        Size selected for average insert size 1.2 kb. Library was
        constructed and donated by M. Kirschner (Harvard Medical
        School)."
```

Yr	2108	TCCTTTTAAATAATAATATATTTTCAATTAATTTTTCAT	2151
Db	50	TATTTTTTTTTTTAATTAATTTATTTTTTTTATCTAAGTTAT	7
RESULT 78			
LOCUS	N81844/c		
DEFINITION	TG8T5ty46g03.r1 TGR Tachyzoite cDNA Toxoplasma gondii clone		
ACCESSION	N81844		
VERSION	N81844.1		
KEYWORDS	GI:1257597		
SOURCE	EST.		
ORGANISM	Toxoplasma gondii.		
REFERENCE	Toxoplasma gondii.		
AUTHORS	Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Sarcocystidae; Toxoplasma. 1 (bases 1 to 60) Hehl, A., Manger, I., Marra, M., Sibley, L. D., Ajioke, J. A., Aslett, M. A., 'Dierich, N., Dubnue, T., Hillier, L., Kueba, T., Wan, K. L., Waterson, R. H. and Boehrly, J. WashU-Merck-Stanford-NIH Toxoplasma EST project Unpublished (1996) Contact: Marra M WashU-Merck EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: toxo@watson.wustl.edu David Sibley at toxest@borcim.wustl.edu for further information relating to organism, clone or library availability. Seq primer: T3 High quality sequence stop: 50. Location/Qualifiers 1..60 /organism="Toxoplasma gondii" /strain="RH" /db_xref="taxon:5811" /clone="cgzy46g03.r1" /clone_lib="TGRH Tachyzoite cDNA" /lab_host="XLA-Blue MRP" /note="Vector: Lambda ZAP; Site 1: EcoRI; Site 2: XhoI; Toxoplasma RH strain tachyzoites were grown in human foreskin fibroblast cultures in vitro. The library was constructed by K.L. Wan, Cambridge University. cDNAs were synthesized from polyA RNAs by oligo d(T) priming and directionally cloned into the EcoRI to XhoI sites of the lambda ZapII vector using the ZAP-cDNA synthesis kit (Stratagene). WARNING: the library contains a small percentage of cDNAs derived from the human host cells."		
BASE COUNT	10 a	0 c	11 g
ORIGIN			39 t
Query Match	0.9%	Score 21.6;	DB 14; Length 60;
Best Local Similarity	60.0%;	Fred. No. 2.5e+06;	
Matches	36; Conservative	0; Mismatches	24; Indels 0; Gaps 0;
Qy	916	AATAGAAAGAAACATGACAAATTCCTCAATGTGAATCAATTTGGCTCCCTACCTC	975
Db	60	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCTCTCTCTCTCTCTC	1
RESULT 79			
LOCUS	AZ368409/c		
DEFINITION	1M0118A09 Mouse 10kb plasmid UUGC1M library Mus musculus genomic		
ACCESSION	AZ368409		
VERSION	AZ368409.1		
KEYWORDS	GSS.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		

REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Mammalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus: 1 (bases 1 to 41)		
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Irlam,H., Longacre,S., Mahmood,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.		
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb		
JOURNAL	Plasmid inserts		
COMMENT	Unpublished (2000) Contact: Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA Tel.: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert length: 10000 Std Error: 0.00 Plate: 018 row: A column: 04 Seq primer: CACACAGGAACACGCTTGCAC Class: plasmid ends High quality sequence stop: 41. Location/Qualifiers 1. 41 /organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UUGC1M0118A04" /clone_1lb="Mouse 10kb plasmid UUGC1M library" /sex="Male" /lib_host="E. Coli strain XL10-Gold, T1-resistant, F-" /note="Vector: FMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (GI4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."		
BASE COUNT	27 a 3 c 1 g 10 t		
ORIGIN			
Query Match	0.9%; Score 21.4; DB 17; Length 41;		
Best Local Similarity	71.8%; Pred. No. 2.8e+06;		
Matches 28; Conservative	0; Mismatches 11; Indels 0; Gaps 0;		
Oy 2108	TCTTTTATATATATATATATATATTTTCAAAATGATT 2146		
Db 40	TTTTTTTCTTAAAGATTATTATTATTTAGTATGCT 2		
RESULT 80			
LOCUS	AI431480 46 bp RNA linear EST 09-MAR-1999		
DEFINITION	bt40f03.x1 NCI CGAP Lym12 Homo sapiens cDNA clone IMAGE:2120765 3'		
ACCESSION	AI431480		
VERSION	AI431480.1 GI:4303480		
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		

BG271387
LOCUS BG271387 52 bp mRNA linear EST 20-FEB-2001
DEFINITION nsl49h05.x1 NCI_CGAP_HN20 Homo sapiens cDNA clone IMAGE:4263776 3',
mRNA sequence.
ACCESSION BG271387
VERSION BG271387.1 GI:12979476
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 52)
AUTHORS NCI/NIH-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute / National Institute of Dental Research,
Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
CDNA Library Preparation: David B. Krizman, Ph.D.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL, send email to:
info@image.llnl.gov
Seq primer: -40UP from Gibco.
Location/Qualifiers
1..52
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4263776"
/clone_1ib="NCI CGAP_HN20"
/lab_host="DH10B"
/note="Organ: normal head/neck tissue; Vector: pAMP1; mRNA
made from head/neck tissue, cDNA made by oligo-dT
priming. Directionally cloned into UDG sites.
Size-selected on agarose gel, average insert size 300 bp.
Primary library. CDNA Library Preparation: David B.
Krizman, Ph.D."

BASE COUNT 12 a 12 c 10 g 18 t
ORIGIN

Query Match 0.9%; Score 21.4; DB 12; Length 52;
Best Local Similarity 66.0%; Pred. No. 2.8e+06;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

CY 203 TTGACCATATGAACTTGCGATGGAACATTTGGAATTC 249
Db 1 TTTTCTTATGACATGTCCCGTACATCGTTAGAACCTTGAATTC 47

RESULT 84
LOCUS BG231005 53 bp mRNA linear EST 09-FEB-2001
DEFINITION na143b05.x1 NCI_CGAP_HN20 Homo sapiens cDNA clone IMAGE:4262744 3',
mRNA sequence.
ACCESSION BG231005
VERSION BG231005.1 GI:12726083
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 53)
AUTHORS NCI/NIH-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute / National Institute of Dental Research,
Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
CDNA Library Preparation: David B. Krizman, Ph.D.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LNL, send email to:
info@image.llnl.gov
Seq primer: -40UP from Gibco.
Location/Qualifiers
1..53
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4262744"
/clone_1ib="NCI CGAP_HN20"
/lab_host="DH10B"
/note="Organ: normal head/neck tissue; Vector: pAMP1; mRNA
made from head/neck tissue, cDNA made by oligo-dT
priming. Directionally cloned into UDG sites.
Size-selected on agarose gel, average insert size 300 bp.
Primary library. CDNA Library Preparation: David B.
Krizman, Ph.D."

BASE COUNT 10 a 11 c 8 g 24 t
ORIGIN

Query Match 0.9%; Score 21.4; DB 12; Length 53;
Best Local Similarity 66.0%; Pred. No. 2.8e+06;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

CY 203 TTGACCATATGAACTTGCGATGGAACATTTGGAATTC 249
Db 7 TTTTCTTATGACATGTCCCGTACATCGTTAGAACCTTGAATTC 53

RESULT 85
LOCUS AZ366215 55 bp DNA linear GSS 02-OCT-2000
DEFINITION IM0115A14F Mouse 10kb plasmid UGCIIM library Mus musculus genomic
clone UGCIIM0115A14 F, DNA sequence.
ACCESSION AZ366215
VERSION AZ366215.1 GI:10479915
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathu; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 55)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacom,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.
and Wright,D.,Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert Length: 1000 Std Error: 0.00
Plate: 0115 row: A column: 14
Seq primer: CGTTGTAACGACGCGCACT
Class: plasmid ends
High quality sequence stop: 55.
Location/Qualifiers
1..55
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGCIIM0115A14"
/clone_1ib="Mouse 10kb plasmid UGCIIM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PWD42ny/ Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource

RESULT 88	59 bp	mRNA	linear	EST 13-APR-1999
LOCUS	Al473426			
DEFINITION	t13j901.x1 NCI_CGAP_Gas4 Homo sapiens CDNA clone IMAGE:2141424 3'			
ACCESSION	Al473426			
VERSION	Al473426.1			
KEYWORDS	EST.			
SOURCE	human.			
ORGANISM	Homo sapiens			
REFERENCE	Emmery, P., Metaxa, Chordata, Craniata, Vertebrata, Euteleostomi; Mammalia, Eutheria, Primates, Catarrhini, Homnidae, Homo.			
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.			
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index			
JOURNAL	Unpublished (1997)			
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaapb@emall.nih.gov Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. CGAP Library Preparation: Life Technologies, Inc. CGAP Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/ILMI at: www-bio.lnli.gov/bbrp/image/image.html Insert Length: 1400 Std Error: 0.00 Seq primer: -40UP from Gibco High quality sequence stop: 58. Location/Qualifiers: 1. 59 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:2141424" /clone_lib="NCI_CGAP_Gas4" /tissue_type="poorly differentiated adenocarcinoma with signet ring cell features" /lab_host="DH10B" /note="Organ: stomach; Vector: PCMV-SPORT6; Site 1: SalI; Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.69 kb. Life Technologies catalog #: 11549-011"			
BASE COUNT	8 a 2 g 49 t			
ORIGIN				
Query Match	0.9%; Score 21.4; DB 9; Length 59;			
Best Local Similarity	66.0%; Pred. No. 2.8e+06;			
Matches 31; Conservative	0; Mismatches 16; Indels 0; Gaps 0;			
Db	1756 TTTTAAAAATCATCATGTCGCAAAAAAACTTAAGCAAAATA 1802			
	53 TTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 7			
RESULT 89	59 bp	DNA	linear	GSS 19-JUN-2002
LOCUS	AL769947/c			
DEFINITION	Arabidopsis thaliana T-DNA flanking sequence GK-095A02-012025,			
ACCESSION	AL769947			
VERSION	AL769947.1			
KEYWORDS	GSS.			
SOURCE	thale cress.			
ORGANISM	Arabidopsis thaliana			
REFERENCE	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosoid II; Brassicales; Brassicaceae; Arabidopsis.			
AUTHORS	Strizhov, N., Li, Y., Rosso, M., Viehoveer, P., Dekker, K., Saedler, H. and Weisshaar, B.			
TITLE	A pipeline for automated high-throughput generation of ESTs			

	(flanking sequence tags) from Arabidopsis thaliana T-DNA transformed lines
JOURNAL	Unpublished
REFERENCE	
AUTHORS	2 Rosco,M., Strilchov,N., Li,Y., Reiss,B., Dekker,K. and Weishaar,B.
TITLE	A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat)
JOURNAL	for flanking sequence tag based reverse genetics
COMMENT	Unpublished 3 (bases 1 to 59) Rosco,M., Li,Y., Strilchov,N. and Weishaar,B. Direct Submission Submitted (17-JUN-2002) Weishaar B., Max-Planck-Institut fuer Zuechtungsfoerhung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence an insertion close to or within gene Atg23880. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated 'GABI'. Information on line availability can be found at: http://www.mpiz-koeln.mpg.de/GABI-Kat/ .
FEATURES	Location/Qualifiers
SOURCE	1..59 /organism="Arabidopsis thaliana" /strain="Columbia 0" /db_xref="taxon:3702" /clone="GK-095A02-012025" /clone_1lb="Arabidopsis thaliana T-DNA insertion lines" /note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pAC161. The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. Sequences displaying significant similarity to the A. thaliana nuclear genome sequence were processed for submission. T-DNA derived sequences were removed"
BASE COUNT	10 a 8 c 7 g 34 t
ORIGIN	
Query Match	0.9%; Score 21.4; DB 17; Length 59;
Best Local Similarity	71.8%; Pred. No. 2.8e+05;
Matches 28; Conservative	0; Mismatches 11; Indels 0; Gaps 0;
Db	57 CAAATGGGAATCCAAAAAAAACAATTG 19
Oy	2044 CAAATGGGAAGCAAGAACAATACTAACCAATG 2082
LOCUS	AV837933/39 bp mRNA linear EST 07-NOV-2001
DEFINITION	AV837933 Nori Satoh unpublished cDNA library, cleavage stage embryo
ACCESSION	AV837933
VERSION	AV837933.1 GI:16782084
KEYWORDS	EST.
ORGANISM	Ciona intestinalis.
SOURCE	Ciona intestinalis
REFERENCE	Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
TITLE	Pnebobranchia; Clonidae; Ciona.
JOURNAL	1 (bases 1 to 39)
COMMENT	Satch,N., Satou,Y., Kohara,Y. and Shin-I,T. Expressed genes in Ciona intestinalis Unpublished (2000) Contact: Nori Satoh Department of Zoology Kyoto University Sakyo-ku Kyoto, Kyoto 606-8502, Japan Tel.: 81-75-753-4081 Fax: 81-75-705-1113 Email: satohn@scidian.zool.kyoto-u.ac.jp. Location/Qualifiers 1..39

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/organism="Ciona intestinalis"
/db_xref="taxon:7719"
/clone_lib="Nori Satoh unpublished cDNA library, cleavage
stage embryo"
/tissue_type="whole animal"
/dev_stage="cleavage stage embryo"
/notes="Vector: pBluescript SK"

BASE COUNT      15 a      5 c      2 g      16 t      1 others
ORIGIN

Query Match      0.9%; Score 21.2; DB 10; Length 39;
Best Local Similarity 88.5%; Pred. No. 3.1e+06;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1743 AAATACGTCGATTTTAAATCA 1768
|||||
Db 31 AAATACAGTGTATTTTAAATCA 6

RESULT 91
BH235137      39 bp      DNA      linear      GSS 01-JAN-2002
LOCUS
DEFINITION
MSAD_E07.x S Spiroplasma kunkelii genomic clone MSAD_E07.x, DNA
sequence.
ACCESSION
BH235137
VERSION
BH235137.1 GI:18030605
KEYWORDS
GSS.
SOURCE
Spiroplasma kunkelii.
Spiroplasma kunkelii
Bacteria; Firmicutes; Mollicutes; Entomoplasmatales;
Spiroplasmataceae; Spiroplasma.
REFERENCE
1 (bases 1 to 39)
Hogenhout, S.A.
Genomic sequences from Spiroplasma kunkelii strain M2
Unpublished (2001)
Contact: Hogenhout SA
Department of Entomology
The Ohio State University-OSARD
120 Thorne Hall, 1680 Madison Avenue, Wooster, OH 44691, USA
Tel: 330 263 3730
Fax: 330 263 3686
Email: hogenhout.1@osu.edu
Plate: AD row: E column: 07
Class: shotgun.
Location/Qualifiers
1. .39
/organism="Spiroplasma kunkelii"
/strain="M2"
/db_xref="taxon:47834"
/clone="MSAD_E07.x"
/clone_lib="S"

BASE COUNT      14 a      0 c      1 g      24 t
ORIGIN

Query Match      0.9%; Score 21.2; DB 17; Length 39;
Best Local Similarity 76.5%; Pred. No. 3.1e+06;
Matches 26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2107 ATCTTTTATATTAATATATTTTCAAT 2140
|||||
Db 1 ATATTTTATATTAATATATTTTATATAT 34

RESULT 92
AA027616      46 bp      mRNA      linear      EST 21-JAN-1997
LOCUS
DEFINITION
m080c08.r1 Soares mouse placenta.4NDMP13.5 14.5 Mus musculus cDNA
clone IMAGE:459854.5' similar to SM:SP1_YEAST_P08458
SPORULATION-SPECIFIC PROTEIN 1', mRNA sequence.
ACCESSION
AA027616
VERSION
AA027616.1 GI:1493610
KEYWORDS
EST.

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SOURCE
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 46)
Marr, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterson, R.
The WashU-HMNI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HMNI Mouse EST Project
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:276742
Possible reversed clone: similarity on wrong strand
Seq primer: -28M13 rev2 from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. .46
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:459854"
/clone_lib="Soares mouse placenta 4NDMP13.5 14.5"
/sex="unknown"
/tissue_type="placenta"
/dev_stage="adult"
/lab_host="DH10B"
/notes="Organ: Placenta; Vector: pT73D-Pac (Pharmacia)
with a modified polylinker; Site 1: Not 1; Site 2: Eco RI;
1st strand cDNA was primed with a Not I - oligo(dT) primer
[5'
TGTTACCAATCTGAAGTGGAGCGCGCGGAAATTTTATTTTATTTTATTTT
T 3']; double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization, and was
constructed by Benito Soares and M.Felina Bonaldo."

BASE COUNT      12 a      8 c      14 g      12 t
ORIGIN

Query Match      0.9%; Score 21.2; DB 9; Length 46;
Best Local Similarity 69.0%; Pred. No. 3.1e+06;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 778 CACACATTTGTGGACATAGATACATGCGCCCTGAATC 819
|||||
Db 43 CAACCTTTGTGTACCCCATATGTGATGCGCCCTGAATC 2

RESULT 93
BG271415      49 bp      mRNA      linear      EST 20-FEB-2001
LOCUS
DEFINITION
na150d11.x1 NCI_CGAP_HN20 Homo sapiens cDNA clone IMAGE:426357 3',
mRNA sequence.
ACCESSION
BG271415
VERSION
BG271415.1 GI:12979533
KEYWORDS
EST.
SOURCE
Homo sapiens
human.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE
1 (bases 1 to 49)
NCI/NIDR-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS
National Cancer Institute / National Institute of Dental Research,
TITLE

```


KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
SOURCE

GS3.
Mus mouse.
Mus musculus
Eumariocata, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 51)
Dunn, P., Aoyagi, A., Barber, M., Baecorn, T., Duval, B., Hamli, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0212 ROW: P Column: 06
Seq primer: CGTGTAAACGACGCGCAGT
Class: plasmid ends
High quality sequence stop: 51.
Location/Qualifiers
1. 51
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C2M0212P06"
/clone_id="Mouse 10kb plasmid U06C2M library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g14732114[gb|AF129072.1]), a copy-number
inducible derivative of plasmid RI. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT
ORIGIN
Query Match
Best Local Similarity 64.0% Pred. No. 3.1e+06;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
QY 1273 CCATCTGACTTGAAGAAGTGTGAAAAGTTTCTTCTTGAACCAAAAT 1322
Db 50 CCAACTGACTTAAAGAAATTAACATTAATTACTTATGCAAGAAATT 1
RESULT 97
AL587783/c 52 bp mRNA linear EST 02-MAR-2001
LOCUS
DEFINITION
R05063B12. mRNA sequence.
ACCESSION
AL587783.1 GI:13192817

KEYWORDS	EST.
SOURCE	chicken.
ORGANISM	Gallus gallus
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.
REFERENCE	1 (bases 1 to 52)
AUTHORS	Murray, F.
TITLE	BP Chicken Brain Library
JOURNAL	Unpublished (2001)
COMMENT	Contact: Frazer Murray Dept. Genomics and Bioinformatics Roslin Institute Roslin, Midlothian, EH25 9PS, UK Tel: +44 (0)131 527 4200 Fax: +44 (0)131 440 0434 Email: frazer.murray@bbsrc.ac.uk GGCGCGCGCTTTTCTTTTCTTTTCTT 3' Poly A RNA purchased from Clontech (*6854-
FEATURES	Seq primer: M13F.
source	Location/Qualifiers 1..52 /organism="Gallus gallus" /db_xref="taxon:9031" /clone="ROS063B12" /clone_id="BP Chicken Brain Library" /lissue_type="Brain" /dev_stage="Unknown" /lab_host="DH10B" /note="Vector: pSPOT1; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. 5' adaptor sequence: 5' TCGACCTCGAG 3' ; 3' adaptor sequence: 5' GGCGCGCGCTTTTCTTTTCTTTTCTT 3' Poly A RNA purchased from Clontech (*6854-1)"
BASE COUNT	9 a 4 c 2 g 37 t
ORIGIN	
Query Match	0.9%; Score 21.2; DB 9; Length 52;
Best Local Similarity	69.0%; Pred. No. 3.1e+06;
Matches 29; Conservative	0; Mismatches 13; Indels 0; Gaps 0;
Db	43 AAAAATCATCATGTCGTCACAAAAAATTAAGCAAAATA 1802 - - - - - - - - - - - 1 AAAAATCATTTTAATGGCGCAAAAAAATTAAGCAAAATA 2
RESULT 98	
LOCUS	AZ862273 53 bp DNA linear GSS 21-FEB-2001
DEFINITION	2M0169H19P Mouse 10kb plasmid UUGC1M library Mus musculus genomic
ACCESSION	2M0169H19P F, DNA sequence.
VERSION	AZ862273
KEYWORDS	AZ862273.1 GI:13059411
ORGANISM	GSS.
SOURCE	house mouse.
REFERENCE	Mus musculus
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scuriognath; Muridae; Murinae; Mus. 1 (bases 1 to 53) Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts Unpublished (2000) Contact: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177
JOURNAL	
COMMENT	

Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0169 row: H column: 19

Seq primer: CATTGTAAACGACGCCACAT

Class: plasmid ends

High quality sequence stop: 53.

FEATURES

source

1. .53
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U062M0169H19"
/clone_1b="Mouse 10kb plasmid U062M1 library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g14732114|gb|AF129072.1) a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 18 a 1 c 31 g 3 t

ORIGIN

Query Match

Best Local Similarity 64.0%; Pred. No. 3.1e+06;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 149 AGCATGAGCTGAGAGGCGGCTCAGTTAAATGAAGCATGACCATGGG 198

Db 4 AGCATGAGAGGAGGAGGAGGCGGAAGAAGAGGAGATGGGAGTGGG 53

RESULT 99
CNS013L5 53 bp DNA linear GSS 26-JUL-1999

LOCUS Drosophila melanogaster genome survey sequence T7 end of BAC

DEFINITION BACN10P12 of DrosBAC library from Drosophila melanogaster (fruit fly) genomic survey sequence.

ACCESSION AL102995.1 GI:5614606

VERSION AL102995

KEYWORDS Drosophila melanogaster.

SOURCE Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

ORGANISM Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;

Phyloidea; Drosophilidae; Drosophila.

1 (bases 1 to 53)

Genoscope.

Direct Submission

Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage:

BP 131 91006 EVRY cedex - FRANCE (E-mail: seqref@genoscope.cns.fr

- Web: www.genoscope.cns.fr)

Determination of this BAC-end sequence was carried out as part of a

collaboration with the European Drosophila Genome Project (EDGP) -

http://www.edgp.ebi.ac.uk - This Drosophila melanogaster BAC

library (Dros BAC) was made by Alain Billand at CEPH (Centre

d'Etude du Polymorphisme Humain) with funding provided by a MRC

project grant. The DNA was prepared from embryos by Alain Bucheton

and Genevieve Payan. It has been constructed in the vector

pBelOBAC11.

Location/Qualifiers

FEATURES

source

1. .53
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone="BACN10P12"
/clone_1b="DrosBAC"
/plasmid="pBelOBAC11"
/note="end: T7"

BASE COUNT 46 a 0 c 0 g 4 t 3 others

ORIGIN

Query Match

Best Local Similarity 65.9%; Pred. No. 3.1e+06;
Matches 29; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

QY 2111 TTTTATTATATATATATATTTTCAATGATTTTGATCA 2154

Db 44 TTTTATTATATATATATATTTTCAATGATTTTGATCA 1

RESULT 100

BG022522 54 bp mRNA linear EST 24-JAN-2001

LOCUS daa76h12.x1 Cho Li treated gastrula Xenopus laevis cDNA clone

DEFINITION IMAGE:4061831.3', mRNA sequence.

ACCESSION BG022522 GI:12478601

VERSION BG022522.1

KEYWORDS EST.

SOURCE African clawed frog.

ORGANISM Xenopus laevis

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;

Xenopodinae; Xenopus.

1 (bases 1 to 54)

Clifton, S., Johnson, S.L., Blumberg, B., Song, J., Hillier, L., Page, D.

, Martin, J., Wylie, T., Underwood, K., Theising, B., Bowers, Y., Person

, B., Gibbons, M., Harvey, N., Ritter, E., Jackson, Y., McCann, R.,

Waterson, R., and Wilson, R.

Washu Xenopus EST project, 1999

Unpublished (1999)

Contact: Sandy Clifton, Ph.D.

Washu Xenopus EST project, 1999

Washington University School of Medicine

444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@wustl.edu

Library constructed by C. Hashimoto, Ph.D. in the laboratory of K.

Cho, Ph.D. DNA Sequencing by: Washington University Genome

Sequencing Center

Clone distribution: Xenopus clones from this library are available

through the I.M.A.G.E. Consortium/LLNL at: info@image.llnl.gov

Seq primer: -40UP from Gibco.

FEATURES

source

1. .54
/organism="Xenopus laevis"
/db_xref="taxon:8135"
/clone="IMAGE:4061831"
/clone_1b="Cho Li treated gastrula"
/tissue_type="gastrula, LI-treated"
/lab_host="DH108"

/note="Vector: pBluescript KS+; Site 1: NotI; Site 2:

ECORI. 1st strand was primed with a Not I - oligo (GTT

primer, double-stranded cDNA was cloned into the Not I and

Eco RI sites of pBluescript KS+. Library was constructed

by C. Hashimoto, Ph.D., in the laboratory of K. Cho, Ph.D.

(Department of Developmental and Cell Biology, University

of California, Irvine)."

BASE COUNT 19 a 2 c 1 g 32 t

ORIGIN

Query Match

0.9%; Score 21.2; DB 12; Length 54;

Best Local Similarity 76.5%; Pred. No. 3.1e+06;
Matches 26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2110 TTTTATTAATAATATATTTTCAATAGA 2143
Db 48 TTGTTAAATAATAGATTTTAATAAAA 15

Search completed: April 19, 2003, 10:05:35
Job time : 3729 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd

OM nucleic - nucleic search, using sw model

Run on: April 19, 2003, 05:16:28 ; Search time 6846 Seconds
(without adjustments)

Title: US-09-920-677-3

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Perfect score: 2346
Sequence: 1 gcaacgaagctgcgcgggtc.....gtaaccaagctgcgagcct 2346
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 897812

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Minimum DB seq length: 0
Maximum DB seq length: 60
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Post-processing:	Minimum Match	0%
	Maximum Match	100%
	Listing first	100 summaries

Database :

1: genbmb1.*
2: gb_ba.*
3: gb_hg.*
4: gb_in.*
5: gb_om.*
6: gb_ov.*
7: gb_pac.*
8: gb_ph.*
9: gb_pl.*
10: gb_pr.*
11: gb_ro.*
12: gb_stc.*
13: gb_sy.*
14: gb_un.*
15: gb_vl.*
16: em_ba.*
17: em_fun.*
18: em_hum.*
19: em_in.*
20: em_nm.*
21: em_om.*
22: em_or.*
23: em_ov.*
24: em_pat.*
25: em_ph.*
26: em_pl.*
27: em_ro.*
28: em_stc.*
29: em_un.*
30: em_vl.*
31: em_hg_inv.*
32: em_hg_other.*
33: em_hg_mus.*
34: em_hg_pln.*
35: em_hg_rod.*
36: em_hg_mam.*
37: em_hg_vrt.*
38: em_sy.*
39: em_hgo_hum.*
40: em_hgo_mus.*
41: em_hgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	25.8	1.1	51	8	S71517	S71517 [3] flanking
2	25.6	1.1	59	6	AX203959	AX203959 Sequence
3	25	1.1	25	6	AX282921	AX282921 Sequence
C 4	25	1.1	25	6	AX282922	AX282922 Sequence
C 5	24.4	1.0	55	11	AL807848	AL807848 Arabidops
6	24.4	1.0	30	6	A48425	A48425 Sequence 48
7	23.8	1.0	32	6	A48426	A48426 Sequence 49
8	23.6	1.0	54	6	I08136	I08136 Sequence 1
9	23.6	1.0	50	6	AX164846	AX164846 Sequence
10	23.4	1.0	43	6	AX484399	AX484399 Sequence
11	23.4	1.0	54	6	AR002541	AR002541 Sequence
12	23.4	1.0	58	6	A51709	A51709 Sequence 15
13	23.4	1.0	58	6	AR167588	AR167588 Sequence
14	23.4	1.0	58	6	AR178299	AR178299 Sequence
15	23.4	1.0	58	6	AX323380	AX323380 Sequence
C 16	23	1.0	58	6	AO8890	AO8890 H. sapiens (
17	22.8	1.0	48	6	AX003947	AX003947 Sequence
18	22.8	1.0	48	6	AX021566	AX021566 Sequence
19	22.8	1.0	48	6	AX021576	AX021576 Sequence
20	22.6	1.0	48	6	AX021632	AX021632 Sequence
C 21	22.6	1.0	51	6	AX115973	AX115973 Sequence
22	22.6	1.0	54	6	AR089685	AR089685 Sequence
23	22.6	1.0	54	6	AX317217	AX317217 Sequence
24	22.4	1.0	44	6	AR032451	AR032451 Sequence
25	22.4	1.0	44	6	AR209115	AR209115 Sequence
26	22.4	1.0	44	6	I29191	I29191 Sequence 63
27	22.4	1.0	44	6	I90865	I90865 Sequence 63
28	22.2	0.9	45	6	AR032600	AR032600 Sequence
29	22.2	0.9	45	6	AR209264	AR209264 Sequence
30	22.2	0.9	45	6	I29340	I29340 Sequence 21
C 31	22.2	0.9	45	6	I91014	I91014 Sequence 21
C 32	22.2	0.9	47	6	AX114334	AX114334 Sequence
C 33	22	0.9	43	6	AX172247	AX172247 Sequence
C 34	22	0.9	42	6	AR152463	AR152463 Sequence
C 35	22	0.9	50	6	AR164855	AR164855 Sequence
C 36	22	0.9	58	6	A51710	A51710 Sequence 16
C 37	22	0.9	58	6	AR167589	AR167589 Sequence
C 38	22	0.9	58	6	AR178299	AR178299 Sequence
C 39	22	0.9	58	6	AX323381	AX323381 Sequence
40	22	0.9	60	6	B0008815	B0008815 Adhesin b
C 41	21.8	0.9	50	6	AR117934	AR117934 Sequence
C 42	21.8	0.9	50	6	AR117952	AR117952 Sequence
C 43	21.8	0.9	51	6	AX160479	AX160479 Sequence
C 44	21.6	0.9	51	6	AX160117	AX160117 Sequence
C 45	21.6	0.9	51	6	AX160118	AX160118 Sequence
C 46	21.6	0.9	54	9	AP079025	AP079025 Homo sapi
C 47	21.6	0.9	55	6	AX484751	AX484751 Sequence
48	21.4	0.9	31	6	AX248729	AX248729 Sequence
49	21.4	0.9	48	6	AR064025	AR064025 Sequence
50	21.4	0.9	48	6	AR178317	AR178317 Sequence
51	21.4	0.9	48	6	AX323399	AX323399 Sequence
C 52	21.4	0.9	51	6	AX162478	AX162478 Sequence
53	21.4	0.9	55	6	I29928	I29928 Sequence 41
54	21.4	0.9	60	6	I66359	I66359 Sequence 18
C 55	21.2	0.9	50	6	AX160974	AX160974 Sequence
C 56	21.2	0.9	51	6	AX157225	AX157225 Sequence
C 57	21.2	0.9	51	6	AX160455	AX160455 Sequence
C 58	21.2	0.9	54	6	AR192747	AR192747 Sequence
C 59	21.2	0.9	54	9	AP254565	AP254565 Homo sapi
C 60	21.2	0.9	55	6	A43625	A43625 Sequence 15
61	21.2	0.9	56	6	AB0902	AB0902 Sequence 13
62	21.2	0.9	56	6	A97341	A97341 Sequence 13
63	21.2	0.9	56	6	A97358	A97358 Sequence 13
64	21.2	0.9	56	6	AR183071	AR183071 Sequence
65	21	0.9	38	6	E07494	E07494 Synthetic D

c 66 21 0.9 40 6 AX299737 Sequence
67 21 0.9 51 6 AX160105 Sequence
68 21 0.9 56 10 MUSBMP24H
69 21 0.9 59 6 AR209950 Sequence
70 21 0.9 59 6 AX253387 Sequence
71 21 0.9 59 6 AX254767 Sequence
72 21 0.9 60 6 AR073297 Sequence
73 21 0.9 60 6 YSCWTP191
74 20.8 0.9 57 3 AF177252 Bodo salt
75 20.6 0.9 28 6 A48423 Sequence 46
76 20.6 0.9 28 6 A48424 Sequence 47
77 20.6 0.9 50 6 A51711 Sequence 17
78 20.6 0.9 50 6 AR167590 Sequence
79 20.6 0.9 50 6 AR178300 Sequence
80 20.6 0.9 50 6 AX165034 Sequence
81 20.6 0.9 50 6 AX323382 Sequence
82 20.6 0.9 51 6 AR068824 Sequence
83 20.6 0.9 51 6 AR122557 Sequence
84 20.6 0.9 51 6 AX157089 Sequence
85 20.6 0.9 51 6 AX157089 Sequence
86 20.6 0.9 51 6 AX158178 Sequence
87 20.6 0.9 51 6 AX161887 Sequence
88 20.6 0.9 51 6 AX161888 Sequence
89 20.6 0.9 51 6 AX162091 Sequence
90 20.6 0.9 51 6 AX162092 Sequence
91 20.6 0.9 53 6 AX404671 Sequence
92 20.6 0.9 54 10 AF328254 Mus muscu
93 20.6 0.9 60 6 E10890 PCR primer
94 20.4 0.9 51 6 AX117117 Sequence
95 20.4 0.9 57 8 YSCWTP182
96 20.2 0.9 39 6 A08918 Human isola
97 20.2 0.9 45 9 HSU26975
98 20.2 0.9 48 6 AR032407 Sequence
99 20.2 0.9 48 6 AR209071 Sequence
100 20.2 0.9 48 6 I29147 Sequence 19

ALIGNMENTS

RESULT 1
S71517 59 bp DNA linear PLN 28-OCT-1994
LOCUS {3' flanking DNA of rpl2 exon 2 homolog} [Pisum sativum, Genomic,
59 nt].
S71517
VERSION S71517.1 GI:560660
KEYWORDS
ORGANISM Pisum sativum.
SOURCE Pisum sativum
Pisum sativum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosida I; Fabales; Fabaceae; Papilionoideae; Viciae;
Pisum.
REFERENCE 1 (bases 1 to 59)
AUTHORS Kocliarova,E.G., Denisenko,Iu.V. and Tarasov,V.A.
TITLE Analysis of nucleotide sequences of 0.7 kb fragments from mixed DNA
from Arabidopsis thaliana and Pisum sativum
JOURNAL Genetics 30 (4), 565-569 (1994)
MEDLINE 94320766
POBMED 8045406
REMARK Genbank staff at the National Library of Medicine created this
entry [NCBI githdb 150347] from the original journal article.
This sequence comes from Fig. 2.
FEATURES
source
1..59
Location/Qualifiers
/organism="Pisum sativum"
/db_xref="taxon:3888"
BASE COUNT 16 a 14 c 8 g 21 t
ORIGIN

Query Match 1.1%; Score 25.8; DB 8; Length 59;
Best Local Similarity 67.9%; Pred. No. 2.3e+05;

Matches 36; Conservative 0; Mismatches 17; Indels 0;
Qy 2134 TTCAATAGATTTTGGATTCAGCTCATTTATGAAGAACATCCCAACTTAA 2186
Db 3 TTGAAGTAGATTTCTTTTATCATTTCAAAACCCCTTCCAAACTGACAA 55

RESULT 2
AX203959 51 bp DNA linear PAT 30-AUG-2001
LOCUS Sequence 65 from Patent WO0148245.
DEFINITION
ACCESSION AX203959
VERSION AX203959.1 GI:15393422
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shumkova,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
method of use thereof
JOURNAL Patent: WO 0148245-A 65 05-JUL-2001;
Curagen Corporation (US)
FEATURES
source
1..51
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
variation
26
/note="single nucleotide polymorphism
Accession number cg4396763"
BASE COUNT 15 a 11 c 6 g 19 t
ORIGIN

Query Match 1.1%; Score 25.6; DB 6; Length 51;
Best Local Similarity 70.8%; Pred. No. 2.5e+05;
Matches 34; Conservative 0; Mismatches 14; Indels 0;
Qy 665 GGATCATCTACAGAGCCGAGCGAGATATATCATGCTTATCACC 712
Db 4 GTATCATCTACCTGTGATCTAAAGCCTGAAGAAATATCTTGTGTAAC 51

RESULT 3
AX282921 25 bp DNA linear PAT 02-NOV-2001
LOCUS Sequence 11 from Patent WO0177338.
DEFINITION
ACCESSION AX282921
VERSION AX282921.1 GI:16609890
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1
AUTHORS Ploewman,G., Whyte,D., Manning,G., Sudarsanam,S., Martinez,R. and
Caenepeel,S.
TITLE Human protein kinases and protein kinase-like enzymes
JOURNAL Patent: WO 0177338-A 11 18-OCT-2001;
Sugen, Inc. (US)
FEATURES
source
1..25
Location/Qualifiers
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Primer"

BASE COUNT 10 a 2 c 6 g 7 t
ORIGIN

Query Match 1.1%; Score 25; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 3.2e+05;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 560 GGAACATATTATGCAAGTTAGAAAG 564
|||||

BASE COUNT 12 a 4 c 5 g 11 t
ORIGIN

Query Match 1.0%; Score 23.8; DB 6; Length 32;
Best Local Similarity 92.6%; Pred. No. 6.3e+05;
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1290 TGTGAAGAAAGTTTCTTGAACC 1316
DB 6 TCTGAAGAAAGTTTCTTGAACC 32

RESULT 8
LOCUS 108136 54 bp DNA linear PAT 02-DEC-1994
DEFINITION Sequence 1 from Patent EP 0343783.
ACCESSION 108136
VERSION 108136.1 GI:589151
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 54)
AUTHORS Barboiu,J.G.
TITLE Method for producing cells containing stably integrated foreign DNA at a high copy number, the cells produced by this method, and the use of these cells to produce the polypeptides coded for by the foreign DNA
JOURNAL Patent: EP 0343783-A2 1 29-NOV-1989;
FEATURES Location/Qualifiers
source 1..54
/organism="unknown"

BASE COUNT 17 a 0 c 0 g 37 t
ORIGIN

Query Match 1.0%; Score 23.8; DB 6; Length 54;
Best Local Similarity 66.7%; Pred. No. 6.6e+05;
Matches 34; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 2113 TTTTATATATATATATTTTCAATAGATTTTGATTCGCCCATAT 2163
DB 2 TATTTATTTATATATATTTTAAATATATTTATTTATTTAT 52

RESULT 9
LOCUS AX164846 50 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 41 from Patent WO0138586.
ACCESSION AX164846
VERSION AX164846.1 GI:14545675
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Shinkens,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0138586-A 41 31-MAY-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
source 1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"

misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26
Accession number CG4398092"

variation 26
/note="single nucleotide polymorphism"

BASE COUNT 22 a 5 c 3 g 20 t
ORIGIN

Query Match 1.0%; Score 23.6; DB 6; Length 50;
Best Local Similarity 76.3%; Pred. No. 7.3e+05;
Matches 29; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 2117 TATATATATATATTTTCAATAGATTTTGATTC 2154
DB 13 TATATATATATATTTTATTCAAAAATATGTTTATACA 50

RESULT 10
LOCUS AX484399 43 bp DNA linear PAT 16-AUG-2002
DEFINITION Sequence 1699 from Patent WO02053728.
ACCESSION AX484399
VERSION AX484399.1 GI:22318751
KEYWORDS
SOURCE Candida albicans.
ORGANISM Candida albicans
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; mitosporic Saccharomycetales; Candida.
REFERENCE 1
AUTHORS Roemer,T., Jiang,B., Boone,C., Bussey,H. and Ohlsen,K.L.
TITLE Gene disruption methodologies for drug target discovery
JOURNAL Patent: WO 02053728-A 1699 11-JUN-2002;
Eliara Pharmaceuticals, Inc. (US)
FEATURES Location/Qualifiers
source 1..43
/organism="Candida albicans"
/db_xref="taxon:5476"

BASE COUNT 14 a 4 c 3 g 22 t
ORIGIN

Query Match 1.0%; Score 23.4; DB 6; Length 43;
Best Local Similarity 81.8%; Pred. No. 8e+05;
Matches 27; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2116 TTATATATATATATTTTCAATAGATTTT 2148
DB 8 TTATATATATATATTTTCAATAGATTTT 40

RESULT 11
LOCUS AR002541 54 bp DNA linear PAT 04-DEC-1998
DEFINITION Sequence 72 from patent US 5741696.
ACCESSION AR002541
VERSION AR002541.1 GI:3964095
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 54)
AUTHORS Cochran,M.D. and Chiang,C.H.
TITLE Recombinant equine herpesvirus
JOURNAL Patent: US 5741696-A 72 21-APR-1998;
FEATURES Location/Qualifiers
source 1..54
/organism="unknown"

BASE COUNT 19 a 11 c 8 g 16 t
ORIGIN

Query Match 1.0%; Score 23.4; DB 6; Length 54;
Best Local Similarity 67.3%; Pred. No. 8.2e+05;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 760 CATGATGACAGTCACACACATTTGTGACAAATAGATTCATG 808
DB 1 CCTATGTATCATACACATACGATTAGGTGACACTATAGATACCG 49

RESULT 12
LOCUS AS1709 58 bp DNA linear PAT 10-MAR-1997

DEFINITION Sequence 15 from Patent WO9618744.
ACCESSION AS1709
VERSION GI:2304513
KEYWORDS
SOURCE unidentified.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D. and Wils,P.
TITLE PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN IMMOBILIZED OLIGONUCLEOTIDE
JOURNAL Patent: WO 9618744-A 15 20-JUN-1996;
RHONE POULENC ROKER SA (FR)
COMMENT Other publication AU 4178996 960703
Other publication FR 2728264 960621.
FEATURES Location/Qualifiers
source 1..58
/organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 18 a 2 c 37 g 1 t
ORIGIN

Query Match 1.0%; Score 23.4; DB 6; Length 58;
Best Local Similarity 63.2%; Pred. No. 8.2e+05;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

Qy 118 GACCTGGACACGACGAGGAGCGGGCTCTGAGATGATGAGAGGAGGGGCTCAG 174
Db 1 GATCCGAG 57

RESULT 13
LOCUS AR167588 58 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 15 from patent US 6287762.
ACCESSION AR167588
VERSION AR167588.1 GI:17903377
KEYWORDS
SOURCE Unknown.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D. and Wils,P.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: US 6287762-A 15 11-SEP-2001;
FEATURES Location/Qualifiers
source 1..58
/organism="unknown"
BASE COUNT 18 a 2 c 37 g 1 t
ORIGIN

Query Match 1.0%; Score 23.4; DB 6; Length 58;
Best Local Similarity 63.2%; Pred. No. 8.2e+05;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

Qy 118 GACCTGGACACGACGAGAGCGGGCTCTGAGATGATGAGAGAGGGGGCTCAG 174
Db 1 GATCCGAG 57

RESULT 14
LOCUS AR178298 58 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 15 from patent US 6319672.
ACCESSION AR178298
VERSION AR178298.1 GI:20219436
KEYWORDS
SOURCE Unknown.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.

TITLE Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: US 6319672-A 15 20-NOV-2001;
FEATURES Location/Qualifiers
source 1..58
/organism="unknown"
BASE COUNT 18 a 2 c 37 g 1 t
ORIGIN

Query Match 1.0%; Score 23.4; DB 6; Length 58;
Best Local Similarity 63.2%; Pred. No. 8.2e+05;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

Qy 118 GACCTGGACACGACGAGAGCGGGCTCTGAGATGATGAGAGAGGGGGCTCAG 174
Db 1 GATCCGAG 57

RESULT 15
LOCUS AX323380 58 bp DNA linear PAT 07-JAN-2002
DEFINITION Sequence 15 from Patent WO0192511.
ACCESSION AX323380
VERSION AX323380.1 GI:18094142
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1
AUTHORS Crouzet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: WO 0192511-A 15 06-DEC-2001;
Aventis Pharma (FR)
FEATURES Location/Qualifiers
source 1..58
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"
BASE COUNT 18 a 2 c 37 g 1 t
ORIGIN

Query Match 1.0%; Score 23.4; DB 6; Length 58;
Best Local Similarity 63.2%; Pred. No. 8.2e+05;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

Qy 118 GACCTGGACACGACGAGAGCGGGCTCTGAGATGATGAGAGAGGGGGCTCAG 174
Db 1 GATCCGAG 57

RESULT 16
LOCUS A08890/c 58 bp DNA linear PAT 02-SEP-1993
DEFINITION H.sapiens (haplotype 1, allele MS32, isolate French, serial number 6) minisatellite sequence.
ACCESSION A08890
VERSION A08890.1 GI:411812
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens.
REFERENCE 1 (bases 1 to 58)
AUTHORS Jeffreys,A.J.
TITLE Extended nucleotide sequences
JOURNAL Patent: EP 0370719-A 70 30-MAY-1990;
IMPERIAL CHEMICAL INDUSTRIES PLC
FEATURES Location/Qualifiers
source 1..58
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 34 a 0 c 0 g 24 t

[illegible]

	Db	4	ATGTGTCGTGCAGACCTCCAGACACCCTCAGACTCCGGGAGAG	45
RESULT 19				
LOCUS	AX021576			
DEFINITION	Sequence 14 from Patent WO9924606.	48 bp	DNA	linear
ACCSSION	AX021576			PAT 07-SEP-2000
VERSION	AX021576.1	GI:10044860		
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS	Kessler,C., Bartl,K., Habermhausen,G. and Orum,H.			
TITLE	Specific and sensitive nucleic acid detection method			
JOURNAL	Patent: WO 9924606-A 14 20-MAY-1999;			
	KESLER CHRISTOPH (DE); BARTL KNUT (DE); HABERHAUSEN GERD (DE);			
	ROCHE DIAGNOSTICS GMBH (DE); ORUM HENRIK (DK)			
FEATURES				
source	1..48			
	/organism="synthetic construct"			
	/db_xref="taxon:32630"			
	/note="HCV_MCR"			
BASE COUNT	9 a	17 c	14 g	8 t
ORIGIN				
Query Match	1.0%; Score 22.8; DB 6; Length 48;			
Best Local Similarity	71.4%; Pred.No. 1.1e+06;			
Matches 30; Conservative	0; Mismatches 12; Indels			0; Gaps
Oy	874	ATGTATGACATCGTGCAGACACCCCCCATTCATCTGGGGAG	915	
Db	4	ATGTGTGTCGTGCAGACCTCCAGACCCCCTCAGACTCCGGGAGAG	45	
RESULT 20				
LOCUS	AX021632			
DEFINITION	Sequence 11 from Patent WO9923250.	48 bp	DNA	linear
ACCSSION	AX021632			PAT 07-SEP-2000
VERSION	AX021632.1	GI:10044915		
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS	Kessler,C., Bartl,K., Habermhausen,G. and Orum,H.			
TITLE	Specific and sensitive method for detecting nucleic acids			
JOURNAL	Patent: WO 9923250-A 11 14-MAY-1999;			
	KESLER CHRISTOPH (DE); BARTL KNUT (DE); HABERHAUSEN GERD (DE);			
	ROCHE DIAGNOSTICS GMBH (DE); ORUM HENRIK (DK)			
FEATURES				
source	1..48			
	/organism="synthetic construct"			
	/db_xref="taxon:32630"			
	/note="HCV_MCR"			
BASE COUNT	9 a	17 c	14 g	8 t
ORIGIN				
Query Match	1.0%; Score 22.8; DB 6; Length 48;			
Best Local Similarity	71.4%; Pred.No. 1.1e+06;			
Matches 30; Conservative	0; Mismatches 12; Indels			0; Gaps
Oy	874	ATGTATGACATCGTGCAGACACCCCCCATTCATCTGGGGAG	915	
Db	4	ATGTGTGTCGTGCAGACCTCCAGACCCCCTCAGACTCCGGGAGAG	45	
RESULT 21				
LOCUS	AX115973/c			
DEFINITION	Sequence 1096 from Patent WO0129262.	51 bp	DNA	linear
				PAT 11-MAY-2001

ACCESSION	AX115973
VERSION	AX115973.1 GI:14032915
KEYWORDS	.
SOURCE	human.
ORGANISM	Homo sapiens
	Eumetazoa; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE	1 (bases 1 to 51)
AUTHORS	Picoult-Newburg,L. and Pohl,M.
TITLE	Genotyping reagents, kits and methods of use thereof
JOURNAL	Patent: WO 0129262-A 1996 26-APR-2001;
	Orchid Biosciences, Inc. (US)
FEATURES	location/Qualifiers
source	1..51
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
BASE COUNT	13 a 9 c 8 g 20 t 1 others
ORIGIN	
Query Match	1.0%; Score 22.6; DB 6; Length 51;
Best Local Similarity	68.9%; Pred.No. 1.2e+06;
Matches	31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Cy	406 AAGCAATGATGTAGTAAGAATGCTAAGTAAAGCCTACAGCCATACAAA 450
Db	51 ATGGCATGATGATTTCAGACACACTTACAGATATATCTGCTGAAAA 7
RESULT 22	
LOCUS	AR089685 54 bp DNA linear PAT 07-SEP-2000
DEFINITION	Sequence 162 from patent US 5994069.
ACCESSION	AR089685
VERSION	AR089685.1 GI:10016440
KEYWORDS	.
SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	1 (bases 1 to 54)
TITLE	Hall,J.G., Lyamichev,V.I., Mast,A.L. and Brow,M.Ann.D.
JOURNAL	Detection of nucleic acids by multiple sequential invasive
FEATURES	cleavages
source	Patent: US 5994069-A 162 30-NOV-1999;
	Location/Qualifiers
	1..54
	/organism="unknown"
BASE COUNT	14 a 7 c 25 g 8 t
ORIGIN	
Query Match	1.0%; Score 22.6; DB 6; Length 54;
Best Local Similarity	75.7%; Pred.No. 1.3e+06;
Matches	28; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
Cy	128 AGCCAGAGGACCGGGCTTGAGATGAGCTGGAGGA 164
Db	4 AGGAAGAGGAGGAGGTGCTCAGAGAGACCGGAGGA 40
RESULT 23	
LOCUS	AX317217 54 bp DNA linear PAT 14-DEC-2001
DEFINITION	Sequence 220 from Patent WO0190337.
ACCESSION	AX317217
VERSION	AX317217.1 GI:17900206
KEYWORDS	.
SOURCE	synthetic construct.
ORGANISM	synthetic construct
REFERENCE	artificial sequences.
AUTHORS	1
	Allawi,H., Bartholomay,C.T., Chehak,L., Curtis,M.L., Eis,P.S.,
	Hall,J.G., Ip,H.S., Kaiser,W., Kwiatkowski,R.W., Lukowick,A.A.,
	Lymichev,V., Ma,W., Olson-Munoz,M.C., Olson,S.M., Schaefer,J.J.,
	Skzypczynski,Z., Takova,T.Y., Vedvik,K.L. and Lymichev,N.E.

FEATURES	source	location/Qualifiers
TITLE	Detection of rna	
JOURNAL	Patent: WO 0190337-A 220 23-NOV-2001;	
FEATURES	THIRD WAVE TECHNOLOGIES, INC. (US)	
source	1..54	
BASE COUNT	14 a 7 c 25 g 8 t	
ORIGIN		
Query Match	1.0%; Score 22.6; DB 6;	Length 54;
Best Local Similarity	75.7%; Pred. No. 1.3e+06;	
Matches	28; Conservative 0; Mismatches 9;	Indels 0; Gaps 0;
QY	128 AGCCAGAGGACGCGGCTCTGAGATGAGCTTGAGAGA 164	
Db	4 AGGAGAGGAGAGGAGGTGCTCAGAGAGAGCGGAGAGA 40	
RESULT 24		
LOCUS	AR032451	44 bp DNA
DEFINITION	Sequence 63 from patent US 5869241.	linear PAT 29-SEP-1999
ACCESSION	AR032451	
VERSION	AR032451.1 GI:5948056	
KEYWORDS	Unknown.	
SOURCE	Unknown.	
ORGANISM	Unclassified.	
REFERENCE	1 (bases 1 to 44)	
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.	
TITLE	Method of determining DNA sequence preference of a DNA-binding molecule	
JOURNAL	Patent: US 5869241-A 63 09-FEB-1999;	
FEATURES	location/Qualifiers	
source	1..44	
BASE COUNT	6 a 15 c 20 g 3 t	
ORIGIN	/organism="unknown"	
Query Match	1.0%; Score 22.4; DB 6;	Length 44;
Best Local Similarity	72.5%; Pred. No. 1.4e+06;	
Matches	29; Conservative 0; Mismatches 11;	Indels 0; Gaps 0;
QY	9 CTGCGGCGGCTCCGGGCCCATGAGGCGAGAGAGGCGG 48	
Db	4 CTCGCGGAGCGCGGCGCATATGAGAGGCGGAGCGCGG 43	
RESULT 25		
LOCUS	AR209115	44 bp DNA
DEFINITION	Sequence 63 from patent US 6384208.	linear PAT 20-JUN-2002
ACCESSION	AR209115	
VERSION	AR209115.1 GI:21510447	
KEYWORDS	Unknown.	
SOURCE	Unknown.	
ORGANISM	Unclassified.	
REFERENCE	1 (bases 1 to 44)	
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.	
TITLE	Sequence directed DNA binding molecules compositions and methods	
JOURNAL	Patent: US 6384208-A 63 07-MAY-2002;	
FEATURES	location/Qualifiers	
source	1..44	
BASE COUNT	6 a 15 c 20 g 3 t	
ORIGIN	/organism="unknown"	
Query Match	1.0%; Score 22.4; DB 6;	Length 44;
Best Local Similarity	72.5%; Pred. No. 1.4e+06;	
Matches	29; Conservative 0; Mismatches 11;	Indels 0; Gaps 0;

Qy 9 CTGCGCGGCTCCGGCCCATGAGCGGAGGAGGCGG 48
Db 4 CTGCGCGGAGCGGCGCATATGAGGAGGCGGCGGCGG 43

RESULT 26
LOCUS 129191 44 bp DNA linear PAT 06-FEB-1997
DEFINITION Sequence 63 from patent US 5578444.
ACCESSION 129191
VERSION 129191.1 GI:1819982
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 44)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Sequence-directed DNA-binding molecules compositions and methods
JOURNAL Patent: US 5578444-A 63 26-NOV-1996;
FEATURES Location/Qualifiers
source 1..44
/organism="unknown"

BASE COUNT 6 a 15 c 20 g 3 t

Query Match 1.0%; Score 22.4; DB 6; Length 44;
Best Local Similarity 72.5%; Pred. No. 1.4e+06;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 9 CTGCGCGGCTCCGGCCCATGAGCGGAGGAGGCGG 48
Db 4 CTGCGCGGAGCGGCGCATATGAGGAGGCGGCGGCGG 43

RESULT 27
LOCUS 190865 44 bp DNA linear PAT 01-DEC-1998
DEFINITION Sequence 63 from patent US 5726014.
ACCESSION 190865
VERSION 190865.1 GI:3935335
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 44)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M. and Turin,L.M.
TITLE Screening assay for the detection of DNA-binding molecules
JOURNAL Patent: US 5726014-A 63 10-MAR-1998;
FEATURES Location/Qualifiers
source 1..44
/organism="unknown"

BASE COUNT 6 a 15 c 20 g 3 t

Query Match 1.0%; Score 22.4; DB 6; Length 44;
Best Local Similarity 72.5%; Pred. No. 1.4e+06;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 9 CTGCGCGGCTCCGGCCCATGAGCGGAGGAGGCGG 48
Db 4 CTGCGCGGAGCGGCGCATATGAGGAGGCGGCGGCGG 43

RESULT 28
LOCUS AR032600 45 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 212 from patent US 5869241.
ACCESSION AR032600
VERSION AR032600.1 GI:5948205
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 45)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Method of determining DNA sequence preference of a DNA-binding molecule
JOURNAL Patent: US 5869241-A 212 09-FEB-1999;
FEATURES Location/Qualifiers
source 1..45
/organism="unknown"

BASE COUNT 13 a 10 c 7 g 15 t

Query Match 0.9%; Score 22.2; DB 6; Length 45;
Best Local Similarity 77.1%; Pred. No. 1.5e+06;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 933 TGACAAATTCCTCAATGTAACTCAATTTGCCTC 967
Db 9 TAAACGAAATTTCCATGTAACTCAATTTCCCTC 43

RESULT 29
LOCUS AR209264 45 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 212 from patent US 6384208.
ACCESSION AR209264
VERSION AR209264.1 GI:21510637
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 45)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Sequence directed DNA binding molecules compositions and methods
JOURNAL Patent: US 6384208-A 212 07-MAY-2002;
FEATURES Location/Qualifiers
source 1..45
/organism="unknown"

BASE COUNT 13 a 10 c 7 g 15 t

Query Match 0.9%; Score 22.2; DB 6; Length 45;
Best Local Similarity 77.1%; Pred. No. 1.5e+06;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 933 TGACAAATTCCTCAATGTAACTCAATTTGCCTC 967
Db 9 TAAACGAAATTTCCATGTAACTCAATTTCCCTC 43

RESULT 30
LOCUS 129340 45 bp DNA linear PAT 06-FEB-1997
DEFINITION Sequence 212 from patent US 5578444.
ACCESSION 129340
VERSION 129340.1 GI:1820131
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 45)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Sequence-directed DNA-binding molecules compositions and methods
JOURNAL Patent: US 5578444-A 212 26-NOV-1996;
FEATURES Location/Qualifiers
source 1..45
/organism="unknown"

BASE COUNT 13 a 10 c 7 g 15 t

Query Match 0.9%; Score 22.2; DB 6; Length 45;
Best Local Similarity 77.1%; Pred. No. 1.5e+06;
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

FEATURES Location/Qualifiers
source 1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26
Accession number C943056971"
26
variation /note="single nucleotide polymorphism"
BASE COUNT 16 a 4 c 8 g 22 t
ORIGIN

Query Match 0.9%; Score 22; DB 6; Length 50;
Best Local Similarity 67.4%; Pred. No. 1.7e+06;
Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2096 AAGACCTGATCTTTTATATAATATATATTTTCAATA 2141
Db 48 AAGACCTTTTACACACTTTGGAAAAATAGGTATTTTCAATA 3

RESULT 36
A51710/c 58 bp DNA linear PAT 10-MAR-1997
LOCUS Sequence 16 from Patent WO9618744.
ACCESSION A51710
VERSION A51710.1 GI:2304514
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D. and Wils,P.
TITLE PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN IMMOBILIZED OLIGONUCLEOTIDE
JOURNAL RHONE-POULENC ROBER SA (FR)
PATENT: WO 9618744-A 16 20-JUN-1996;
Other publication AU 417896 960703
Other publication FR 2728264 960621.
FEATURES Location/Qualifiers
source 1..58
/organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 2 a 36 c 1 g 19 t
ORIGIN

Query Match 0.9%; Score 22; DB 6; Length 58;
Best Local Similarity 63.0%; Pred. No. 1.7e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 123 GGACGACGAGGAGGAGCGGCTCTGAGATGAGCTGAGAGGAGGAGGTCAGTT 176
Db 54 GGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAAATT 1

RESULT 37
AR167589/c 58 bp DNA linear PAT 17-DEC-2001
LOCUS Sequence 16 from patent US 6287762.
ACCESSION AR167589
VERSION AR167589.1 GI:17903378
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D. and Wils,P.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: US 6287762-A 16 11-SEP-2001;
FEATURES Location/Qualifiers
source 1..58
/organism="unknown"

BASE COUNT 2 a 36 c 1 g 19 t
ORIGIN

Query Match 0.9%; Score 22; DB 6; Length 58;
Best Local Similarity 63.0%; Pred. No. 1.7e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 123 GGACGACGAGGAGGAGCGGCTCTGAGATGAGCTGAGAGGAGGAGGTCAGTT 176
Db 54 GGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAAATT 1

RESULT 38
AR178299/c 58 bp DNA linear PAT 20-APR-2002
LOCUS Sequence 16 from patent US 6319672.
DEFINITION AR178299
ACCESSION AR178299
VERSION AR178299.1 GI:20219437
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: US 6319672-A 16 20-NOV-2001;
FEATURES Location/Qualifiers
source 1..58
/organism="unknown"

BASE COUNT 2 a 36 c 1 g 19 t
ORIGIN

Query Match 0.9%; Score 22; DB 6; Length 58;
Best Local Similarity 63.0%; Pred. No. 1.7e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 123 GGACGACGAGGAGGAGCGGCTCTGAGATGAGCTGAGAGGAGGAGGTCAGTT 176
Db 54 GGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAAATT 1

RESULT 39
AX323381/c 58 bp DNA linear PAT 07-JAN-2002
LOCUS Sequence 16 from Patent WO0192511.
ACCESSION AX323381
VERSION AX323381.1 GI:18094143
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 58)
AUTHORS Crouzet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: WO 0192511-A 16 06-DEC-2001;
Aventis Pharma (FR)
FEATURES Location/Qualifiers
source 1..58
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"

BASE COUNT 2 a 36 c 1 g 19 t
ORIGIN

Query Match 0.9%; Score 22; DB 6; Length 58;
Best Local Similarity 63.0%; Pred. No. 1.7e+06;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

Qy 123 GGACGACGAGGAGGAGCGGCTCTGAGATGAGCTGAGAGGAGGAGGTCAGTT 176
Db 54 GGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAAATT 1

[illegible]

RESULT 42	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	FEATURES	BASE COUNT	ORIGIN	Query Match	Best Local Similarity	Matches	Conservative	Score	Pred.	DB	Length	Indels	Gaps	Others
AR117952/c	AR117952	Sequence	44	from patent	US 6140470.										0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
AR117952	AR117952	Sequence	44	from patent	US 6140470.										0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
AR117952	AR117952	Sequence	44	from patent	US 6140470.										0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
AR117952.1	GI:14038858														0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
Unknown.	Unknown.	Unclassified.													0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
1 (bases 1 to 50)	1 (bases 1 to 50)	Garen, A. and Cai, X.													0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
Human monoclonal anti-tumor antibodies	Human monoclonal anti-tumor antibodies	Patent: US 6140470-A 44 31-OCT-2000;													0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
Location/Qualifiers	Location/Qualifiers	1..50													0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
/organism="unknown"	/organism="unknown"														0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
6 a	11 c	20 g													0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
10 t															0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
3 others															0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
Query Match	Best Local Similarity	Matches	Conservative	Score	Pred.	DB	Length	Indels	Gaps	Others					0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp					0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp	0	50 bp					0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
13	Indels	0	Gaps	0	0	50 bp	0	0	50 bp						0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
1	Indels	0	Gaps	0	0	50 bp	0	0	50 bp						0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
1	Indels	0	Gaps	0	0	50 bp	0	0	50 bp						0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
1	Indels	0	Gaps	0	0	50 bp	0	0	50 bp						0.9%	67.4%	1	1	70.7%	1.9e+06;	6	50 bp	0	0	50 bp
1	Indels	0	Gaps	0	0	50 bp</																			

KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE
AUTHORS Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE 1 (bases 1 to 51)
JOURNAL Nucleic acids containing single nucleotide polymorphisms and
AUTHORS Shinkens, R.A. and Leach, M.
METHODS methods of use thereof
PATENT: WO 0140521-A 3445 07-JUN-2001;
JOURNAL Curagen Corporation (US)
FEATURES
SOURCE Location/Qualifiers
1..51
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc_feature
26
/note="1 of 2 allelic variants (3446 is other entry)"
Accession number CG43771689"
BASE COUNT 13 a 10 c 5 g 23 t
ORIGIN

Query Match 0.9%; Score 21.6; DB 6; Length 51;
Best Local Similarity 68.2%; Pred. No. 2.1e+06;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1278 TGTACTTGAAGTGTGAAGAAAGTTTCTCTTGAACCAAAA 1321
DB 45 TGTACACTAAATGTGAATGTGAAGTTTGTAAAAAGAAAA 2

RESULT 45
LOCUS AX160118 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 3446 from Patent WO0140521.
ACCESSION AX160118
VERSION AX160118.1 GI:14541449
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE
AUTHORS Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE 1 (bases 1 to 51)
JOURNAL Nucleic acids containing single nucleotide polymorphisms and
METHODS methods of use thereof
PATENT: WO 0140521-A 3446 07-JUN-2001;
JOURNAL Curagen Corporation (US)
FEATURES
SOURCE Location/Qualifiers
1..51
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc_feature
26
/note="2 of 2 allelic variants (3445 is other entry)"
Accession number CG43771689"
BASE COUNT 12 a 10 c 6 g 23 t
ORIGIN

Query Match 0.9%; Score 21.6; DB 6; Length 51;
Best Local Similarity 68.2%; Pred. No. 2.1e+06;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1278 TGTACTTGAAGTGTGAAGAAAGTTTCTCTTGAACCAAAA 1321
DB 45 TGTACACTAAATGTGAATGTGAAGTTTGTAAAAAGAAAA 2

RESULT 46
LOCUS AF079025/c 54 bp mRNA linear PRI 15-SEP-1999
DEFINITION Homo sapiens clone AV22-1 T-cell receptor alpha chain (TCRA) mRNA,
partial cds.
ACCESSION AF079025
VERSION AF079025.1 GI:5881986

KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
REFERENCE
AUTHORS Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE 1 (bases 1 to 54)
JOURNAL Fontenot, A.P., Falta, M.T., Newman, L.S. and Kotzin, B.L.
AUTHORS Identification of pathogenic T-cells in patients with
TITLE beryllium-induced lung disease
JOURNAL Unpublished
REFERENCE
AUTHORS Fontenot, A.P., Falta, M.T., Newman, L.S. and Kotzin, B.L.
TITLE Direct Submission
JOURNAL Submitted (15-JUL-1998) Medicine and Pediatrics, National Jewish
Medical and Research Center, 1400 Jackson Street, K1020, Denver, CO
80206, USA
FEATURES
SOURCE Location/Qualifiers
1..54
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="AV22-1"
/cell_type="CD4+"
/note="Isolated from peripheral blood and bronchoalveolar
lavage of patient 2 with chronic beryllium disease"
1..54
/gene="TCRA"
<1..54
/gene="CDR3; 3' end of TCRAV22 to 5' end of AJ8"
/note="CDR3; 3' end of TCRAV22 to 5' end of AJ8"
/codon_start=1
/product="T-cell receptor alpha chain"
/protein_id="AAD5151.1"
/db_xref="GI:5882002"
/translation="VYFCALSDNMGFKLVFG"
BASE COUNT 13 a 9 c 13 g 19 t
ORIGIN

Query Match 0.9%; Score 21.6; DB 9; Length 54;
Best Local Similarity 68.2%; Pred. No. 2.1e+06;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1685 TCAAAATGACAGTTTCAGAGATCATGTCTATCATGAAAC 1728
DB 54 TCCAAATGCAAGTTTGTGAAGCCGTGTATCACTCAGAGAC 11

RESULT 47
LOCUS AX484751 55 bp DNA linear PAT 16-AUG-2002
DEFINITION Sequence 2051 from Patent WO02053728.
ACCESSION AX484751
VERSION AX484751.1 GI:22319035
KEYWORDS
SOURCE Candida albicans.
ORGANISM Candida albicans
REFERENCE
AUTHORS Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
TITLE Saccharomycetales; mitosporic Saccharomycetales; Candida.
JOURNAL Rosemer, T., Jiang, B., Boone, C., Bussey, H. and Ohlsen, K.L.
METHODS Gene disruption methodologies for drug target discovery
PATENT: WO 02053728-A 2051 11-JUL-2002;
JOURNAL Elittra Pharmaceuticals, Inc. (US)
FEATURES
SOURCE Location/Qualifiers
1..55
/organism="Candida albicans"
/db_xref="taxon:5476"
BASE COUNT 12 a 9 c 25 t
ORIGIN

Query Match 0.9%; Score 21.6; DB 6; Length 55;
Best Local Similarity 68.2%; Pred. No. 2.1e+06;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

SOURCE	Unknown.
ORGANISM	Unknown.
REFERENCE	Unclassified.
AUTHORS	Crouzet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.
TITLE	Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL	Patent: US 6319672-A 34 20-NOV-2001;
FEATURES	Location/Qualifiers
source	1..48 /organism="unknown"
BASE COUNT	16 a 0 c 32 g 0 t
ORIGIN	
Query Match	0.9%; Score 21.4; DB 6; Length 48;
Best Local Similarity	66.0%; Pred.No.2.4e+06;
Matches	31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Dn	1 GGAGCAGGACGAGGACGGCGCTCTGAAGATGAGCTGAGGAGGGG 169 1 GGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 47
RESULT 51	
LOCUS	AX323399 48 bp DNA linear PAT 07-JUN-2002
DEFINITION	Sequence 34 from Patent WO0192511.
ACCESSION	AX323399
VERSION	AX323399.1 GI:18094161
KEYWORDS	synthetic construct.
SOURCE	synthetic construct
ORGANISM	artificial sequences.
REFERENCE	1
AUTHORS	Crouzet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.
TITLE	Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL	Patent: WO 0192511-A 34 06-DEC-2001;
FEATURES	Aventis Pharma (FR)
source	Location/Qualifiers
1..48	/organism="synthetic construct"
/db_xref="taxon:32630"	
/note="synthetic oligonucleotide"	
BASE COUNT	16 a 0 c 32 g 0 t
ORIGIN	
Query Match	0.9%; Score 21.4; DB 6; Length 48;
Best Local Similarity	66.0%; Pred.No.2.4e+06;
Matches	31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Dn	1 GGAGCAGGACGAGGACGGCGCTCTGAAGATGAGCTGAGGAGGGG 169 1 GGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 47
RESULT 52	
LOCUS	AX162478 51 bp DNA linear PAT 22-JUN-2001
DEFINITION	Sequence 5806 from Patent WO0140521.
ACCESSION	AX162478
VERSION	AX162478.1 GI:14543809
KEYWORDS	human.
SOURCE	Homo sapiens
ORGANISM	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo. 1 (bases 1 to 51) Shimkets,R.A. and Leach,M. Nucleic acids containing single nucleotide polymorphisms and methods of use thereof Patent: WO 0140521-A 5806 07-JUN-2001; Curagen Corporation (US)
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	

JOURNAL Patent: WO 9507987-A 15 23-MAR-1995;

COMMENT SOLVAY (BE)
Other publication NO 961086 960509
Other publication ZA 9406887 950627
Other publication AU 7615894 950403
Other publication GB 2282601 950412.

FEATURES
source
1. .56
/organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 19 a 10 c 8 g 18 t
ORIGIN

Query Match 0.9%; Score 21.2; DB 6; Length 55;
Best Local Similarity 64.0%; Pred. No. 2.7e+06;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1273 CCATCTGCTTGAAGTGAAGAAAGTTTCCTTGAACCAAAAT 1322
Db 50 CAAAATGTAATCTATGTGGGATCCTTTGTTAGTTCAACCAAAAT 1

RESULT 61
LOCUS A80902 56 bp DNA linear PAT 21-JAN-2000
DEFINITION Sequence 13 from Patent EP0919631.
ACCESSION A80902
VERSION A80902.1 GI:6731507
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 56)
AUTHORS Goetz,F.P. and Pohlner,J.D.
TITLE Process for the identification of nucleic acids
JOURNAL Patent: EP 0919631-A 13 02-JUN-1999;
EVOTEC BIOSYSTEMS AG (DE)
FEATURES
source
1. .56
/organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 23 a 11 c 12 g 10 t
ORIGIN

Query Match 0.9%; Score 21.2; DB 6; Length 56;
Best Local Similarity 69.0%; Pred. No. 2.7e+06;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 221 GCATGGAACATTGTGGAATTTGAAATCTCAGAACTAGTG 262
Db 9 GCTTACCACAACTTAAGAAATCTGAAATATCTCAGCAAGTG 50

RESULT 62
LOCUS A97341 56 bp DNA linear PAT 26-JAN-2000
DEFINITION Sequence 13 from Patent WO9916900.
ACCESSION A97341
VERSION A97341.1 GI:6780700
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 56)
AUTHORS Goetz,F. and Straus,A.
TITLE METHOD FOR IDENTIFYING A NUCLEIC ACID
JOURNAL Patent: WO 9916900-A 13 08-APR-1999;
GOETZ FRIEDRICH (DE); STRAUS ANDREAS (DE)
FEATURES
source
1. .56
/organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 23 a 11 c 12 g 10 t
ORIGIN

Query Match 0.9%; Score 21.2; DB 6; Length 56;
Best Local Similarity 69.0%; Pred. No. 2.7e+06;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 221 GCATGGAACATTGTGGAATTTGAAATCTCAGAACTAGTG 262
Db 9 GCTTACCACAACTTAAGAAATCTGAAATATCTCAGCAAGTG 50

RESULT 63
LOCUS A97358 56 bp DNA linear PAT 26-JAN-2000
DEFINITION Sequence 13 from Patent WO9916904.
ACCESSION A97358
VERSION A97358.1 GI:6780716
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 56)
AUTHORS Goetz,F. and Straus,A.
TITLE METHOD FOR DETERMINING ACTIVE AGENTS
JOURNAL Patent: WO 9916904-A 13 08-APR-1999;
GOETZ FRIEDRICH (DE); STRAUS ANDREAS (DE)
FEATURES
source
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/organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 23 a 11 c 12 g 10 t
ORIGIN

Query Match 0.9%; Score 21.2; DB 6; Length 56;
Best Local Similarity 69.0%; Pred. No. 2.7e+06;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 221 GCATGGAACATTGTGGAATTTGAAATCTCAGAACTAGTG 262
Db 9 GCTTACCACAACTTAAGAAATCTGAAATATCTCAGCAAGTG 50

RESULT 64
LOCUS ARI83071 56 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 13 from patent US 6339174.
ACCESSION ARI83071
VERSION ARI83071.1 GI:2026278
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 56)
AUTHORS Bogdanovic,S.
TITLE Method for preparing aldehydes by hydroformylation
JOURNAL Patent: US 6339174-A 13 15-JAN-2002;
FEATURES
source
1. .56
/organism="unknown"

BASE COUNT 23 a 11 c 12 g 10 t
ORIGIN

Query Match 0.9%; Score 21.2; DB 6; Length 56;
Best Local Similarity 69.0%; Pred. No. 2.7e+06;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 221 GCATGGAACATTGTGGAATTTGAAATCTCAGAACTAGTG 262
Db 9 GCTTACCACAACTTAAGAAATCTGAAATATCTCAGCAAGTG 50

RESULT 65
LOCUS E07494 38 bp DNA linear PAT 29-SEP-1997


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DEFINITION Synthetic DNA for probe.
ACCESSION E07494
VERSION E07494.1 GI:2175632
KEYWORDS JP 1994133799-A/3.
SOURCE unidentified.
ORGANISM unidentified.

REFERENCE
  1 (bases 1 to 38)
AUTHORS Yamamoto, K., Yamamoto, T. and Mori, H.
TITLE ANALYSIS OF HUMAN HERPES VIRUS 6 TYPE @ (3754/24) HHV-6) DNA AND
JOURNAL DISCRIMINATION OF SUB-TYPE
Patent: JP 1994133799-A 3 17-MAY-1994;
INTERNAL REAGENTS CORP

COMMENT
  OS None
  OC Artificial sequences.
  PN JP 1994133799-A/3
  PD 17-MAY-1994
  PF 27-OCT-1992 JP 1992311416
  PI YAMAMOTO KOICHI, YAMAMOTO TAKESHI, MORI HIROYUKI PC
  CI C12Q1/68, C12Q1/68, C12N15/11, C12N15/38;
  CC strandedness: single;
  CC topology: linear;
  CC hypothetical: NO;
  CC anti-sense: No;
  FH Key
  FH Location/Qualifiers
  FT source
  FT 1.38
  FT /organism='Artificial sequences'.
  FT 1.38
  FT /db_xref='taxon:32644'

FEATURES
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  BASE COUNT 16 a 5 c 5 g 12 t
  ORIGIN
    Query Match 0.9%; Score 21; DB 6; Length 38;
    Best Local Similarity 73.0%; Pred. No. 2.9e+06;
    Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1749 ACGTGATTTTAAATAATCAATCAATGCGCAAAAAA 1785
Db 1 ATGTGAATGTAAATAATTAATTAATCGCCGCAAAAAA 37

RESULT 66
LOCUS AX299737 40 bp DNA linear PAT 26-NOV-2001
DEFINITION Sequence 17 from Patent WO0175163.
ACCESSION AX299737
VERSION AX299737.1 GI:17129277
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1
AUTHORS Landers, J. E.
TITLE High throughput methods for haplotyping
JOURNAL Patent: WO 0175163-A 17 11-OCT-2001;
POLYMERX, Inc. (US)
FEATURES
  source
  1.40
  Location/Qualifiers
  misc_feature
  1 /note="amino group attached"
  7 a 4 c 3 g 26 t
  BASE COUNT 7 a 4 c 3 g 26 t
  ORIGIN
    Query Match 0.9%; Score 21; DB 6; Length 40;
    Best Local Similarity 73.0%; Pred. No. 2.9e+06;
    Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Qy 1766 TCATCAATGTCGCAAAAAAAGCTTAAGCAATA 1802
Db 37 TCATTCATTGTGCGCAAAAAAAGCTTAAGCAATA 1

RESULT 67
LOCUS AX160105 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 3433 from Patent WO0140521.
ACCESSION AX160105
VERSION AX160105.1 GI:14541436
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
  1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Beach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
JOURNAL methods of use thereof
Patent: WO 0140521-A 3433 07-JUN-2001;
Curagen Corporation (US)
FEATURES
  source
  Location/Qualifiers
  1.51
  /organism="Homo sapiens"
  /db_xref="taxon:9606"
  misc_feature
  26 /note="1 of 2 allele variants (3434 is other entry)"
  Accession number Cg4326348"
  BASE COUNT 25 a 6 c 6 g 14 t
  ORIGIN
    Query Match 0.9%; Score 21; DB 6; Length 51;
    Best Local Similarity 66.7%; Pred. No. 2.9e+06;
    Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 1733 GACACAGAAAAATTAACGTGATTTTAAATAATCAATCAATGCT 1777
Db 6 GAACAGTAAAAAATAATAGTTTGAACACATATATCCCTCGT 50

RESULT 68
LOCUS MUSBMP24H 56 bp DNA linear ROD 29-MAY-2002
DEFINITION Mouse gene for BMP-2/4 type I receptor, exons (partial) and introns
(partial).
ACCESSION D45009
VERSION D45009.1 GI:624892
KEYWORDS BMP-2/4 type I receptor.
SOURCE Mus musculus (sub species: domesticus, strain:129) adult male liver
DNA, clone lib:lambda DASH-II.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
  1 (bases 1 to 56)
AUTHORS Mishina, Y., Suzuki, A., Debra, G.J., Copeland, N.G., Jenkins, N.A.,
Ueno, N. and Behringer, R.R.
TITLE Genomic organization and chromosomal location of the mouse type I
JOURNAL BMP-2/4 receptor
Biochem. Biophys. Res. Commun. (1995) In press
REFERENCE
  2 (bases 1 to 56)
AUTHORS Behringer, R.R.
TITLE Direct Submission
JOURNAL Submitted (30-DEC-1994) Richard R. Behringer, The University of
Texas M.D. Anderson Cancer Center, Molecular Genetics; 1515
Holcombe, Houston, Texas 77030, U.S.A.
(E-mail:rs11112@odh.mda.utx.tmc.edu, Tel:713-794-4631,
Fax:713-794-4394)
FEATURES
  source
  1.56
  Location/Qualifiers
  /organism="Mus musculus"
  /strain="129"
  /sub_species="domesticus"

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FEATURES	Source	Location/Qualifiers
exon		/db_xref="taxon:10090" /chromosome="14" /sex="male" /tissue_type="liver" /clone_lib="lambda DASH-II" /dev_stage="adult" <1..10 /product="BMP-2/4 type I receptor" /note="the length of exons is 100 bp"
intron		/number=5 /note="the length of introns is 4.8 kb"
BASE COUNT	19 a 5 c 4 g 28 t	
ORIGIN		
Query Match	0.9%; Score 21; DB 10; Length 56;	
Best Local Similarity	73.0%; Pred. No. 3e+06;	
Matches	27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;	
Oy	2093	TGCAAAACACCTGAATCTTTTATATATATATAT 2129
Db	3	TGCTATAGTAAGATCTTATTTTATACAAATATAT 39
RESULT 69		
LOCUS	AR209950	59 bp DNA linear PAT 20-JUN-2002
DEFINITION	Sequence 4 from patent US 6387631.	
ACCESSION	AR209950	
VERSION	AR209950.1 GI:21512053	
KEYWORDS		
SOURCE	Unknown.	
ORGANISM	Unknown.	
REFERENCE	1 (bases 1 to 59)	
AUTHORS	Arnold,L.J., Sawan,S.P. and Lee,P.H.	
TITLE	Polymer coated surfaces for microarray applications	
JOURNAL	Patent: US 6387631-A 4 14-MAY-2002;	
FEATURES	Location/Qualifiers	
source	1..59	
BASE COUNT	25 a 4 c 12 g 18 t	
ORIGIN		
Query Match	0.9%; Score 21; DB 6; Length 59;	
Best Local Similarity	66.7%; Pred. No. 3e+06;	
Matches	30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;	
Oy	1078	TTCTTTAGACATTTACTGCGAAGAACTTGGCTCGAAAGGTG 1122
Db	5	TTCATTAGTGACATTAAAGAAAGAACTGATGTTTGAATGTG 49
RESULT 70		
LOCUS	AX253387	59 bp DNA linear PAT 10-OCT-2001
DEFINITION	Sequence 17 from Patent W00171039.	
ACCESSION	AX253387	
VERSION	AX253387.1 GI:16073921	
KEYWORDS		
SOURCE	Candida albicans.	
ORGANISM	Candida albicans	
REFERENCE	Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;	
AUTHORS	Saccharomycetales; Saccharomycetales; Candida.	
TITLE	1 (bases 1 to 59)	
JOURNAL	Reynolds,M.A., Ruvoilo,M. and Arnold,L.J.	
FEATURES	Combined polynucleotide sequences as discrete assay endpoints	
Source	Patent: WO 0171039-A 17 27-SEP-2001;	
Location/Qualifiers	Incyte Pharmaceuticals, Inc. (US)	
1..59		
/organism="Candida albicans"		

BASE COUNT	25 a	4 c	12 g	18 t	
ORIGIN					
Query Match	0.9%	Score 21;	DB 6;	Length 59;	
Best Local Similarity	66.7%;	Pred. No. 3e+06;			
Matches 30;	Conservative 0;	Mismatches 15;	Indels 0;	Gaps 0;	
Oy 1078	TTCTTTAGACATTAACTGGAGAACTTCTGGCTCGAAAGTG	1122			
Db 5	TTCACTAGTGACATTAAAGAGAAACTGATGTTTGAATGTG	49			
RESULT 71					
LOCUS	AX254767	59 bp	DNA	linear	PAT 10-OCT-2001
DEFINITION	Sequence 4 from Patent WO0170641.				
ACCESSION	AX254767				
VERSION	AX254767.1	GI:16074429			
KEYWORDS					
SOURCE					
ORGANISM	Candida albicans.				
REFERENCE	Candida albicans				
AUTHORS	Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; mitosporic Saccharomycetales; Candida.				
TITLE	1 (bases 1 to 59)				
JOURNAL	Arnold,L.J., Sawan,S.P. and Lee,P.H.				
FEATURES	Polymer coated surfaces for microarray applications				
Source	Patent: WO 0170641-A 4 27-SEP-2001;				
Location/Qualifiers	Incyte Pharmaceuticals, Inc. (US)				
BASE COUNT	25 a	4 c	12 g	18 t	
ORIGIN					
Query Match	0.9%	Score 21;	DB 6;	Length 59;	
Best Local Similarity	66.7%;	Pred. No. 3e+06;			
Matches 30;	Conservative 0;	Mismatches 15;	Indels 0;	Gaps 0;	
Oy 1078	TTCTTTAGACATTAACTGGAGAACTTCTGGCTCGAAAGTG	1122			
Db 5	TTCACTAGTGACATTAAAGAGAAACTGATGTTTGAATGTG	49			
RESULT 72					
LOCUS	AR073297	60 bp	DNA	linear	PAT 28-AUG-2000
DEFINITION	Sequence 2 from patent US 5948894.				
ACCESSION	AR073297				
VERSION	AR073297.1	GI:10000060			
KEYWORDS					
SOURCE					
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 60)				
TITLE	Berry,M.J., Davis,P.J., Verhoeven,M.E. and De Winter,R.F.J.				
JOURNAL	Immunodisordent reagents				
FEATURES	Patent: US 5948894-A 2 07-SEP-1999;				
Source	Location/Qualifiers				
BASE COUNT	12 a	16 c	13 g	13 t	6 others
ORIGIN	/organism="unknown"				
Query Match	0.9%	Score 21;	DB 6;	Length 60;	
Best Local Similarity	62.8%;	Pred. No. 3e+06;			
Matches 27;	Conservative 0;	Mismatches 16;	Indels 0;	Gaps 0;	
Oy 58	TACCAAGCCCGACTTCCGAGACAGGAAGCTGAGGACATGG	100			
Db 1	TTCTTTAGACATTAACTGGAGAACTTCTGGCTCGAAAGTG	1122			

Db 17 TACCCCTTACCGAATCCCNNNNGATCCTGAGAGACG 59

RESULT 73
LOCUS YSCMTp191/c 60 bp DNA linear PLN 04-AUG-1993
DEFINITION Yeast (S.cerevisiae) mitochondrial petite mutant excision seq 19,
left end.
ACCESSION J01506.1 GI:343885
VERSION J01506.1 GI:343885
KEYWORDS AT-rich region; GC rich region.
SEGMENT 1 of 2
SOURCE Yeast (Saccharomyces cerevisiae) mitochondrial DNA.
ORGANISM Mitochondria Saccharomyces cerevisiae
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
REFERENCE 1 (bases 1 to 60)
AUTHORS de Zamaroczy,M., Faugeron-Fonty,G. and Bernardi,G.
TITLE Excision sequences in the mitochondrial genome of yeast
JOURNAL Gene 21 (3), 193-202 (1983)
MEDLINE 83210931
PubMed 6343188
COMMENT Additional sequences reported in [1], but sequenced in earlier
papers, appear in separate entries. Excision repeat corresponds to
bases 11 to 36.
FEATURES
source
1..60
/organism="Saccharomyces cerevisiae"
/db_xref="taxon:4932"
BASE COUNT 32 a 2 c 0 g 26 t
ORIGIN

Query Match 0.9%; Score 21; DB 8; Length 60;
Best Local Similarity 82.8%; Pred. No. 3e+06; 5; Indels 0; Gaps 0;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2111 TTTTATATATAATATATATATTTTCAAA 2139
Db 37 TATTATATATATATATATATTTTATTA 9

RESULT 74
LOCUS AF177252 57 bp RNA linear INV 21-FEB-2000
DEFINITION Bodo saltans clone pBG764 mitochondrial putative gRNA.
ACCESSION AF177252
VERSION AF177252.1 GI:7012655
KEYWORDS
SOURCE Bodo saltans.
ORGANISM Mitochondrion Bodo saltans
Eukaryota; Euglenozoa; Kinetoplastida; Bodonidae; Bodo.
REFERENCE 1 (bases 1 to 57)
AUTHORS Blom,D., de Haan,A., van den Burg,J., van den Berg,M., Sloof,P.,
Jirku,M., Lukes,J. and Benne,R.
TITLE Mitochondrial minicircles in the free-living bodonid Bodo saltans
contain two gRNA gene cassettes and are not found in large networks
JOURNAL RNA 6 (1), 121-135 (2000)
MEDLINE 20132239
PubMed 10668805
REFERENCE 2 (bases 1 to 57)
AUTHORS Blom,D., De Haan,A., Sloof,P., Jirku,M., Lukes,J. and Benne,R.
TITLE Direct Submission
JOURNAL Submitted (12-AUG-1999) Department of Biochemistry, Academic
Medical Center, Weibergdreef 15, Amsterdam 1105 AZ, The Netherlands
FEATURES
source
1..57
/organism="Bodo saltans"
/organelle="mitochondrion"
/db_xref="taxon:75058"
/chromosome="minicircle"
/clone="pBG764"
1..57
misc_RNA

BASE COUNT 23 a 10 c 4 g 20 t
ORIGIN /note="gRNA"
/evidence=not_experimental

Query Match 0.9%; Score 20.8; DB 3; Length 57;
Best Local Similarity 60.7%; Pred. No. 3.3e+06;
Matches 34; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Qy 2062 ACAAAAGAACTTACCAATGATGTTTACGTCGCAACACCTGAATCTTTT 2117
Db 2 ACAAAACACACACAGCATGAGCTATCAACGAAACATTTTTTTTTTTT 57

RESULT 75
LOCUS A48423 28 bp DNA linear PAT 07-MAR-1997
DEFINITION Sequence 46 from Patent WO9603501.
ACCESSION A48423
VERSION A48423.1 GI:2302214
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chaudhuri,B., Stephan,C. and Fuerst,P.
TITLE DUAL HYBRID SYSTEM
JOURNAL Patent: WO 9603501-A 46 08-FEB-1996;
CIBA GEIGY AG (CH)
COMMENT Other publication AU 2983295 960222.
FEATURES
source
1..28
/organism="unidentified"
/db_xref="taxon:32644"
/note="5'END ANTI-SENSE STRAND OF CODING SEQUENCE OF RAT
P7056 KINASE GENE"
/function="PCR FRAGMENT"
BASE COUNT 11 a 5 c 6 g 6 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 28;
Best Local Similarity 85.2%; Pred. No. 3.5e+06;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1376 AATTTTCCTCGGGAGTTCTGGGAA 1402
Db 28 AATTCCTCTCGGGAGTTCTGTGAA 2

RESULT 76
LOCUS A48424 28 bp DNA linear PAT 07-MAR-1997
DEFINITION Sequence 47 from Patent WO9603501.
ACCESSION A48424
VERSION A48424.1 GI:2302215
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chaudhuri,B., Stephan,C. and Fuerst,P.
TITLE DUAL HYBRID SYSTEM
JOURNAL Patent: WO 9603501-A 47 08-FEB-1996;
CIBA GEIGY AG (CH)
COMMENT Other publication AU 2983295 960222.
FEATURES
source
1..28
/organism="unidentified"
/db_xref="taxon:32644"
/complement(9..28)
/note="5'END ANTI-SENSE STRAND OF CODING SEQUENCE OF
TRUNCATED P7056K DELTA C GENE"
misc_peptide

BASE COUNT 9 a 5 c 5 g 9 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 28;
Best Local Similarity 85.2%; Pred. No. 3.5e+06;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1586 ACCTGGTATGATCATGACAGCA 1612
DB 28 ACCTGGTATGATCATGATCA 2

RESULT 77

LOCUS A51711 50 bp DNA linear PAT 10-MAR-1997
DEFINITION Sequence 17 from Patent WO9618744.
ACCESSION A51711
VERSION A51711.1 GI:2304515

KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.

REFERENCE 1 (bases 1 to 50)
AUTHORS Crozet,J., Scherman,D. and Wils,P.
TITLE PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN IMMOBILIZED OLIGONUCLEOTIDE

JOURNAL Patent: WO 9618744-A 17 20-JUN-1996;
Rhone Poulenc Korer SA (FR)
Other publication AU 4178996 960703
Other publication FR 2728264 960621.

FEATURES
source 1..50
/organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 17 a 0 c 33 g 0 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 50;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 132 AGAGACGGCGGCTTGAGATGAGCTGAGAGCGGGCTCAG 174
DB 3 AGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 45

RESULT 78
LOCUS ARI67590 50 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 17 from patent US 6287762.
ACCESSION ARI67590
VERSION ARI67590.1 GI:17903379

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 50)
AUTHORS Crozet,J., Scherman,D. and Wils,P.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide

JOURNAL Patent: US 6287762-A 17 11-SEP-2001;
FEATURES
source 1..50
Location/Qualifiers
/organism="unknown"

BASE COUNT 17 a 0 c 33 g 0 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 50;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 132 AGAGACGGCGGCTTGAGATGAGCTGAGAGCGGGCTCAG 174

DB 3 AGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 45

RESULT 79

LOCUS ARI78300 50 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 17 from patent US 6319672.
ACCESSION ARI78300
VERSION ARI78300.1 GI:20219438

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 50)
AUTHORS Crozet,J., Scherman,D., Wils,P., Blanche,F. and Cameron,B.
TITLE Purification of a triple helix formation with an immobilized oligonucleotide

JOURNAL Patent: US 6319672-A 17 20-NOV-2001;
FEATURES
source 1..50
Location/Qualifiers
/organism="unknown"

BASE COUNT 17 a 0 c 33 g 0 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 50;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 132 AGAGACGGCGGCTTGAGATGAGCTGAGAGCGGGCTCAG 174
DB 3 AGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 45

RESULT 80

LOCUS AXI65034 50 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 229 from Patent WO0138586.
ACCESSION AXI65034
VERSION AXI65034.1 GI:14545863

KEYWORDS
SOURCE human.
ORGANISM human.

REFERENCE 1 (bases 1 to 50)
AUTHORS Shimkova,R.A. and Leach,M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof

JOURNAL Patent: WO 0138586-A 229 31-MAY-2001;
Curagen Corporation (US)
FEATURES
source 1..50
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"

misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26
Accession number cg42907867"

variation 26
/note="single nucleotide polymorphism"

BASE COUNT 9 a 8 c 21 g 12 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 50;
Best Local Similarity 74.3%; Pred. No. 3.6e+06;
Matches 26; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 2301 TGGGGTGACCTGGGTTATTTTCAGTAAACCAG 2335
DB 15 TGGAGGAGATCTGGGCTTTTCTGAAGCCAG 49

RESULT 81

AX323382
LOCUS AX323382 50 bp DNA linear PAT 07-JAN-2002
DEFINITION Sequence 17 from Patent WO0192511.
ACCESSION AX323382
VERSION AX323382.1 GI:18094144
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1
AUTHORS Crouzet, J., Scherman, D., Wils, P., Blanche, P. and Cameron, B.
TITLE Publication of a triple helix formation with an immobilized oligonucleotide
JOURNAL Patent: WO 0192511-A 17 06-DEC-2001;
Aventis Pharma (PR)
FEATURES
SOURCE location/Qualifiers
1..50
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"
BASE COUNT 17 a 0 c 33 g 0 t
ORIGIN
Query Match 0.9%; Score 20.6; DB 6; Length 50;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 132 AAGAGACGGGGCTCTGAGATGAGTGGAGAGGGGGTCA 174
Db 3 AAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 45
RESULT 82
LOCUS AR068824 51 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 24 from patent US 5854051.
ACCESSION AR068824
VERSION AR068824.1 GI:6001031
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 51)
AUTHORS Chandrasekar, R. and Tsuji, N.
TITLE Parasitic helminth asparaginase proteins, nucleic acid molecules, and uses thereof
JOURNAL Patent: US 5854051-A 24 29-DEC-1998;
FEATURES
SOURCE location/Qualifiers
1..51
/organism="unknown"
BASE COUNT 12 a 12 c 5 g 22 t
ORIGIN
Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 1848 CATCTTCTCAACCTTATCAGAGATTTCATGTTGATGACTCG 1890
Db 9 CTTCTTACTGAACTTTTTCATCTTTTCTATGACTAG 51
RESULT 83
LOCUS AR122557 51 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 24 from patent US 6165735.
ACCESSION AR122557
VERSION AR122557.1 GI:14106874
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 51)

AUTHORS Chandrasekar, R. and Tsuji, N.
TITLE Parasitic helminth asparaginase proteins, nucleic acid molecules, and uses thereof
JOURNAL Patent: US 6165735-A 24 26-DEC-2000;
FEATURES
SOURCE location/Qualifiers
1..51
/organism="unknown"
BASE COUNT 12 a 12 c 5 g 22 t
ORIGIN
Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 1848 CATCTTCTCAACCTTATCAGAGATTTCATGTTGATGACTCG 1890
Db 9 CTTCTTACTGAACTTTTTCATCTTTTCTATGACTAG 51
RESULT 84
LOCUS AX157089/c 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 417 from Patent WO0140521.
ACCESSION AX157089
VERSION AX157089.1 GI:14538420
KEYWORDS
SOURCE human.
ORGANISM human.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 417 07-JUN-2001;
Curagen Corporation (US)
FEATURES
SOURCE location/Qualifiers
1..51
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc-feature
/note="1 of 2 allelic variants (418 is other entry)"
Accession number CG44924574"
BASE COUNT 15 a 15 c 14 g 7 t
ORIGIN
Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Qy 1024 GCTTCTCGTCTGGAGAGCTGCTCCTGGGAGCGCTGGAGAGTTC 1066
Db 48 GCTTCTCTCTGAGAGCTCTCCGAGCTGGGGCTGATCAGTTC 6
RESULT 85
LOCUS AX157090/c 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 418 from Patent WO0140521.
ACCESSION AX157090
VERSION AX157090.1 GI:14538421
KEYWORDS
SOURCE human.
ORGANISM human.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 418 07-JUN-2001;
Curagen Corporation (US)
FEATURES
SOURCE location/Qualifiers

source 1. .51
/organism="Homo sapiens"
/db_xref="taxon:9606"
misc_feature 26
/note="2 of 2 allelic variants (417 is other entry)
Accession number CG44924574"
BASE COUNT 15 a 14 c 14 g 8 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 1024 GCTTCTGTCGTGGAGCTGCTCCCTGGGACGCTGAGAACTTC 1066
Db 48 GCTTCTCTCTGAGAGCTCTCCAAAGCTGGGGCTGATCAGTTTC 6

RESULT 86
AX158178 AX158178 51 bp DNA linear PAT 22-JUN-2001
LOCUS AX158178
DEFINITION Sequence 1506 from Patent WO0140521.
ACCESSION AX158178
VERSION AX158178.1 GI:14539509
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof
JOURNAL Patent: WO 0140521-A 1506 07-JUN-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
misc_feature 26
/organism="Homo sapiens"
/db_xref="taxon:9606"
/note="2 of 2 allelic variants (1505 is other entry)
Accession number CG30144940"
BASE COUNT 15 a 19 c 9 g 8 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 62.7%; Pred. No. 3.6e+06;
Matches 32; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

Qy 669 CATCTACAGAGCCTGAGCGGAGATATCATGCTTAATCACCAGGTCA 719
Db 1 CATCCATCCGAGAGCTCAACCGACATATCTTGTCACACCCCGGAGCA 51

RESULT 87
AX161887/c AX161887 51 bp DNA linear PAT 22-JUN-2001
LOCUS AX161887
DEFINITION Sequence 5215 from Patent WO0140521.
ACCESSION AX161887
VERSION AX161887.1 GI:14543218
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof
JOURNAL Patent: WO 0140521-A 5215 07-JUN-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
1. .51
/organism="Homo sapiens"

misc_feature 26
/note="1 of 2 allelic variants (5216 is other entry)
Accession number CG43986974"
BASE COUNT 12 a 10 c 14 g 15 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 1145 TGCATCTGAGAGGATGTAGTCACTTGTGATTCAGATTAC 1187
Db 46 TGCAGAGTCAGGGGATTTCCGACAGCTTCATCCCAATTCC 4

RESULT 88
AX161888 AX161888 51 bp DNA linear PAT 22-JUN-2001
LOCUS AX161888
DEFINITION Sequence 5216 from Patent WO0140521.
ACCESSION AX161888
VERSION AX161888.1 GI:14543219
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof
JOURNAL Patent: WO 0140521-A 5216 07-JUN-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
misc_feature 26
/organism="Homo sapiens"
/db_xref="taxon:9606"
/note="2 of 2 allelic variants (5215 is other entry)
Accession number CG43986974"
BASE COUNT 13 a 10 c 13 g 15 t
ORIGIN

Query Match 0.9%; Score 20.6; DB 6; Length 51;
Best Local Similarity 67.4%; Pred. No. 3.6e+06;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 1145 TGCATCTGAGAGGATGTAGTCACTTGTGATTCAGATTAC 1187
Db 46 TGCAGAGTCAGGGGATTTCCGACAGCTTCATCCCAATTCC 4

RESULT 89
AX162091/c AX162091 51 bp DNA linear PAT 22-JUN-2001
LOCUS AX162091
DEFINITION Sequence 5419 from Patent WO0140521.
ACCESSION AX162091
VERSION AX162091.1 GI:14543422
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof
JOURNAL Patent: WO 0140521-A 5419 07-JUN-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
1. .51
/organism="Homo sapiens"

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misc_feature          /db_xref="taxon:9606"
                      26
                      /note="1 of 2 allelic variants (5420 is other entry)
                      Accession number CG43999946"
BASE COUNT           25 a      7 c      6 g      13 t
ORIGIN

Query Match          0.9%; Score 20.6; DB 6; Length 51;
Beat Local Similarity 74.3%; Pred. No. 3.6e+06;
Matches 26; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Cy 2098 ACAACCTGAATCTTTTATTATATAAATTAATTT 2132
      ||||| | | | | | | | | | | | | | | | | |
Db 49 ACACAGCGTAGTGTTTTGTTTCAGAAATATGTATTT 15

RESULT 90
AXI62092/c           AXI62092       51 bp      DNA      linear      PAT 22-JUN-2002
LOCUS                Sequence 5420 from Patent WO0140521.
DEFINITION            AXI62092
ACCESSION              AXI62092
VERSION               GI:14543423
KEYWORDS
SOURCE
ORGANISM              human.
                     Homo sapiens
                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                     Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE
AUTHORS               Shinkens,R.A. and Leach,M.
TITLE                 Nucleic acids containing single nucleotide polymorphisms and
                     methods of use thereof
JOURNAL               Patent: WO 0140521-A 5420 07-JUN-2001;
                     Curagen Corporation (US)
FEATURES
source
                     1..51
                     /organism="Homo sapiens"
                     /db_xref="taxon:9606"
misc_feature          26
                     /note="2 of 2 allelic variants (5419 is other entry)
                     Accession number CG43999946"
BASE COUNT           25 a      6 c      6 g      14 t
ORIGIN

Query Match          0.9%; Score 20.6; DB 6; Length 51;
Beat Local Similarity 74.3%; Pred. No. 3.6e+06;
Matches 26; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Cy 2098 ACAACCTGAATCTTTTATTATATAAATTAATTT 2132
      ||||| | | | | | | | | | | | | | | | | |
Db 49 ACACAGCGTAGTGTTTTGTTTCAGAAATATGTATTT 15

RESULT 91
AX404671/c           AX404671       53 bp      DNA      linear      PAT 14-JUN-2002
LOCUS                Sequence 45 from Patent WO0224745.
DEFINITION            AX404671
ACCESSION              AX404671
VERSION               GI:21437952
KEYWORDS
SOURCE
ORGANISM              human.
                     Homo sapiens
                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                     Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE
AUTHORS               Abken,H. and Schinkeoethe,T.
TITLE                 Method for detecting tumor cells
JOURNAL               Patent: WO 0224745-A 45 28-MAR-2002;
                     Abken, Hinrich (DE)
FEATURES
source
                     1..53
                     /organism="Homo sapiens"
                     /db_xref="taxon:9606"
BASE COUNT           22 a      6 c      6 g      19 t

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Query Match	0.9%	Score 20.6	DB 6	Length 53
Best Local Similarity	62.7%	Pred. No. 3.7e+06		
Matches 32	Conservative 0	Mismatches 19	Indels 0	Gaps 0
<p>QY 2109 CTTTCTTTTATATAATATATATTTTCAATPAGTTTGTGTCAGCTCA 2159</p> <p>DB 52 CTTTCTTTACTTACTTGTAAAAAGTTGCTCAATATGATATATGAACAATGCA 2</p>				
<p>RESULT 92</p> <p>AF328254/c 54 bp DNA linear ROD 29-JUN-2001</p> <p>LOCUS AF328254</p> <p>DEFINITION Mus musculus isolate 1.2-N1 T-cell receptor beta chain VDJ junctional region gene, partial cds.</p> <p>ACCESSION AF328254</p> <p>VERSION AF328254.1 GI:13898488</p> <p>KEYWORDS Mus musculus.</p> <p>SOURCE Mus musculus.</p> <p>ORGANISM Mus musculus.</p> <p>REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. (bases 1 to 54)</p> <p>AUTHORS Maryanski, J.L., Atcuil, V., Hamrouni, A., Mutin, M., Rossi, M., Audlin, A. and Bucher, P.</p> <p>INDIVIDUALITY Individuality of Ag-selected and preimmune TCR repertoires Immunol. Res. 23 (1), 75-84 (2001)</p> <p>JOURNAL Immunol. 23 (1), 75-84 (2001)</p> <p>MEDLINE 21310440</p> <p>PUBMED 11417861</p> <p>REFERENCE 2 (bases 1 to 54)</p> <p>AUTHORS Maryanski, J.L., Atcuil, V., Hamrouni, A., Mutin, M., Rossi, M., Audlin, A. and Bucher, P.</p> <p>INDIVIDUALITY Direct Submission</p> <p>JOURNAL Submitted (13-DEC-2000) INSERM Unit 503, CERVI, 21 Avenue Tony Garnier, 69365 Lyon Cedex 07, France</p> <p>FEATURES</p> <p>LOCATION/Qualifiers</p> <p>Source</p> <p>1..54</p> <p>/organism="Mus musculus"</p> <p>/strain="DBA/2"</p> <p>/isolate="1.2-N1"</p> <p>/db_xref="taxon:10090"</p> <p>/rearranged</p> <p><1..>54</p> <p>/product="T-cell receptor beta chain VDJ junctional region"</p> <p>/note="TCRBV1.0"</p> <p>/codon_start=1</p> <p>/product="T-cell receptor beta chain VDJ junctional region"</p> <p>/protein_id="AAK48763.1"</p> <p>/db_xref="GI:13898489"</p> <p>/translation="SAVYVLCASSISQNSDYTFG"</p> <p>BASE COUNT 11 a 18 c 10 g 15 t</p> <p>ORIGIN</p> <p>Query Match 0.9%; Score 20.6; DB 10; Length 54;</p> <p>Best Local Similarity 67.4%; Pred. No. 3.7e+06;</p> <p>Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;</p> <p>QY 1638 AAGTGAGAGGAGAGATGTGTGACGATCTTGCAAGGTGAACA 1680</p> <p>DB 50 AAGGTGTAGTCGAGAGTTTGTAAAGCTGCTGCACAGAGATACA 8</p> <p>RESULT 93</p> <p>LOCUS E10890 60 bp DNA linear PAT 29-SEP-1997</p> <p>DEFINITION PCR primer for gaining human cytochrome P450.</p> <p>ACCESSION E10890</p> <p>VERSION E10890.1 GI:22027985</p> <p>KEYWORDS JP 1996056695-A/39.</p>				

SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 60)
AUTHORS Hayashi,K., Sakaki,T., Yabusaki,Y., Komai,K., Kaneko,H. and Nakatsuka,I.
TITLE METHOD FOR EVALUATING SAFETY
JOURNAL Patent: JP 1996056695-A 39 05-MAR-1996;
SUMITOMO CHEM CO LTD
COMMENT OS None
OC Artificial sequences.
PN JP 1996056695-A/39
PD 05-MAR-1996
PR 15-JUL-1994 JP 1994164184
PR 20-JUL-1993 JP 93P 201120, 30-JUL-1993 JP 93P 208279, PR
17-JUN-1994 JP 94P 136053
PI HAYASHI KOJI, SAKAKI TOSHIYUKI, YABUSAKI YOSHIYASU, PI KOMAI KOICHIRO,
PI KANEKO HIDEO, NAKATSUKA IWAO
PC C12Q1/02,C12M1/34,C12Q1/26;
CC strandedness: Single;
CC topology: Linear;
CC hypothetical: No;
FH Key
FT source
FEATURES 1..60 Location/Qualifiers
source /organism="Artificial sequences".
1..60 /organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 24 a 12 c 17 g 7 t
ORIGIN
Query Match 0.9%; Score 20.6; DB 6; Length 60;
Best Local Similarity 62.7%; Pred. No. 3.7e+06;
Matches 32; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
QY 888 GACTGAGGACCCCATTCACCTGGGAGATAGAGAAACAAATTGACAA 938
DB 10 GAATGAGGACAGCTGATGAGAGGCGGACAGAGCAATTCATTGACAA 60
RESULT 94
AX117117 51 bp DNA linear PAT 11-MAY-2001
LOCUS Sequence 2240 from Patent WO0129262.
DEFINITION AX117117
ACCESSION AX117117
VERSION AX117117.1 GI:14034059
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Picoult-Newburg,L. and Pohl,M.
TITLE Genotyping reagents, kits and methods of use thereof
JOURNAL Patent: WO 0129262-A 2240 26-APR-2001;
Orchid Biosciences, Inc. (US)
FEATURES source
1..51 Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 25 a 7 c 7 g 11 t 1 others
ORIGIN
Query Match 0.9%; Score 20.4; DB 6; Length 51;
Best Local Similarity 65.2%; Pred. No. 4.1e+06;
Matches 30; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 1724 AACACTTCGACACAGGAAAATTAACGTCGATTTTAAAAATCAA 1769
DB 2 AGCAATTCAACAGAGGAAAAAACTATTAATTGCGAGAAATCTA 47

RESULT 95
YSCMTPI82 57 bp DNA linear PLN 04-AUG-1993
LOCUS Yeast (S.cerevisiae) mitochondrial petite mutant excision seq 18,
DEFINITION right end.
ACCESSION J01505.1 GI:343883
VERSION J01505.1
KEYWORDS AT-rich region; GC rich region.
SEGMENT 2 of 2
SOURCE Yeast (Saccharomyces cerevisiae) mitochondrial DNA.
ORGANISM Mitochondrion Saccharomyces cerevisiae
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
REFERENCE 1 (bases 1 to 57)
AUTHORS de Zamaroczy,M., Faugeton-Fonty,G. and Bernardi,G.
TITLE Excision sequences in the mitochondrial genome of yeast
JOURNAL Gene 21 (3), 193-202 (1983)
MEDLINE 83210931
PUBMED 6343188
COMMENT Additional sequences reported in [1], but sequenced in earlier
papers, appear in separate entries. Excision repeat corresponds to
bases 11 to 25.
FEATURES 1..57 Location/Qualifiers
source /organism="Saccharomyces cerevisiae"
/organelle="mitochondrion"
/db_xref="taxon:4932"
BASE COUNT 23 a 1 c 1 g 31 t 1 others
ORIGIN
Query Match 0.9%; Score 20.4; DB 8; Length 57;
Best Local Similarity 60.0%; Pred. No. 4.1e+06;
Matches 33; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
QY 2118 ATATTAATATATATATTTTCAATAGATTTCAGCTCATTAAGAAAACAT 2172
DB 2 ATTAATAATATTTATTTATTTAGTTTATTTTATTAACATTTTATTAATAAT 56
RESULT 96
A08918 39 bp DNA linear PAT 02-SEP-1993
LOCUS H.sapiens (allele MS32, isolate English, serial number 3 and 4)
DEFINITION H.sapiens (allele MS32, isolate English, serial number 3 and 4)
ACCESSION A08918
VERSION A08918.1 GI:411840
KEYWORDS
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 39)
AUTHORS Jeffreys,A.J.
TITLE Extended nucleotide sequences
JOURNAL Patent: EP 0370719-A 101 30-MAY-1990;
IMPERIAL CHEMICAL INDUSTRIES PLC
FEATURES source
1..39 Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 18 a 0 c 0 g 21 t
ORIGIN
Query Match 0.9%; Score 20.2; DB 6; Length 39;
Best Local Similarity 75.8%; Pred. No. 4.4e+06;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 2108 TCTTTTATTAATATATATTTTCAAT 2140
DB 7 TATATTTTATTAATAAATTTATTAAT 39

RESULT 97
LOCUS HSU26975/c 45 bp mRNA linear PRI 10-JUN-1995
DEFINITION Human isolate M15 T-cell receptor V-alpha 3/J alpha 57 junction
mRNA, partial cds.
ACCESSION U26975.1 GI:857421
VERSION U26975.1
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 45)
AUTHORS Dave, V.P., Larche, M., Rencher, S.D., Koop, B.F. and Hurwitz, J.L.
TITLE Restricted usage of T-cell receptor V alpha sequence and
variable-jointing pairs after normal T-cell development and bone
marrow transplantation
JOURNAL Hum. Immunol. 37 (3), 178-184 (1993)
MEDLINE 94064390
PUBMED 8244780
REFERENCE 2 (bases 1 to 45)
AUTHORS Hurwitz, J.L.
TITLE Direct Submission
JOURNAL Submitted (12-MAY-1995) Julia L. Hurwitz, Immunology, St. Jude
Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38101,
USA
FEATURES
source location/Qualifiers
1. .45
/organism="Homo sapiens"
/isolate="M15"
/db_xref="taxon:9606"
/tissue_type="Blood"
/note="encodes V alpha 3/J alpha 57 junction"
/codon_start=1
/evidence="experimental"
/product="T-cell receptor"
/protein_id="AA68158.1"
/db_xref="GI:857422"
/translation="PCATDPWGSEKLVF"
BASE COUNT 7 a 10 c 14 g 14 t
ORIGIN
Query Match 0.9%; Score 20.2; DB 9; Length 45;
Best Local Similarity 68.3%; Pred. No. 4.5e+06;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 1547 AAAAACAAGCTTTTCCCATGATCTCCAAACGGCCAGACAC 1587
DB 45 AAAGACCAAGCTTTTTCAGATCCGCCCAAGGGTCCGTAGCAC 5
RESULT 98
LOCUS AR032407 48 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 19 from patent US 5869241.
ACCESSION AR032407
VERSION AR032407.1 GI:5948012
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 48)
AUTHORS Edwards, C.A., Cantor, C.R., Andrews, B.M., Turin, L.M. and Fry, K.E.
TITLE Method of determining DNA sequence preference of a DNA-binding
molecule
JOURNAL Patent: US 5869241-A 19 09-FEB-1999;
FEATURES location/Qualifiers
source 1. .48
/organism="unknown"
BASE COUNT 20 a 8 c 6 g 14 t
ORIGIN

Query Match 0.9%; Score 20.2; DB 6; Length 48;
Best Local Similarity 68.3%; Pred. No. 4.5e+06;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 2082 GATGTTTACGCGCAACCACTGAACTCTTTTATATA 2122
DB 1 GATGTTACACAGCAACAAATAATATATCTGTGCAATATA 41
RESULT 99
LOCUS AR209071 48 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 19 from patent US 6384208.
ACCESSION AR209071
VERSION AR209071.1 GI:21510392
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 48)
AUTHORS Edwards, C.A., Cantor, C.R., Andrews, B.M., Turin, L.M. and Fry, K.E.
TITLE Sequence directed DNA binding molecules compositions and methods
JOURNAL Patent: US 6384208-A 19 07-MAY-2002;
FEATURES location/Qualifiers
source 1. .48
/organism="unknown"
BASE COUNT 20 a 8 c 6 g 14 t
ORIGIN
Query Match 0.9%; Score 20.2; DB 6; Length 48;
Best Local Similarity 68.3%; Pred. No. 4.5e+06;
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QY 2082 GATGTTTACGCGCAACCACTGAACTCTTTTATATA 2122
DB 1 GATGTTACACAGCAACAAATAATATATCTGTGCAATATA 41
RESULT 100
LOCUS I29147 48 bp DNA linear PAT 06-FEB-1997
DEFINITION Sequence 19 from patent US 5578444.
ACCESSION I29147
VERSION I29147.1 GI:1819938
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 48)
AUTHORS Edwards, C.A., Cantor, C.R., Andrews, B.M., Turin, L.M. and Fry, K.E.
TITLE Sequence-directed DNA-binding molecules compositions and methods
JOURNAL Patent: US 5578444-A 19 26-NOV-1996;
FEATURES location/Qualifiers
source 1. .48
/organism="unknown"
BASE COUNT 20 a 8 c 6 g 14 t
ORIGIN
Query Match 0.9%; Score 20.2; DB 6; Length 48;
Best Local Similarity 68.3%; Pred. No. 4.5e+06;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 2082 GATGTTTACGCGCAACCACTGAACTCTTTTATATA 2122
DB 1 GATGTTACACAGCAACAAATAATATATCTGTGCAATATA 41
Search completed: April 19, 2003, 08:53:58
Job time : 6855 secs

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